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SCS ENGINEERS

Results of Additional Subsurface Investigation

Ghilotti Construction Company
246 Ghilotti Avenue
Santa Rosa, California
(SCDHS ID #00002017; NCRWQCB Site #1TSO501)
(Assessor's Parcel No. 134-171-053)

File Number 01203312.00

Prepared by:

SCS Engineers
3645 Westwind Boulevard
Santa Rosa, California 95403

To:

Mr. Cliff Ives
Sonoma County Department of Health Services
475 Aviation Blvd., Suite 220
Santa Rosa, California 95403

April 3, 2006

Limitations/Disclaimer

This report has been prepared for Ghilotti Construction Company with specific application to additional subsurface exploration for the property located at 246 Ghilotti Avenue, Santa Rosa, California. This report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. The conclusions contained herein are based on analytical data, and points of exploration. The nature and extent of subsurface conditions may and likely do vary between borings and/or points of exploration. No other warranty, either expressed or implied, is made as to the professional conclusions presented herein.

Access to the property and the surrounding area was limited by buildings, roadways, underground and above-ground utilities and other miscellaneous site and site vicinity features. Therefore, the field exploration and points of subsurface observation were somewhat restricted.

Changes in site use and conditions may occur due to man-made changes or variations in rainfall, temperature, water usage, or other factors. Additional information which was not available to the consultant at the time of this assessment or changes which may occur on the site or in the surrounding area may result in modification to the site and the vicinity that would impact the summary presented herein. This report is not a legal opinion.

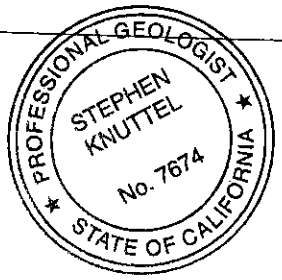
We trust this report provides the information you require at this time and we appreciate the opportunity to work with you on this project. If you require any additional information, or have any questions, please do not hesitate to contact SCS at (707) 546-9461.

KLC

Kevin L. Coker REA 7887
CA registration fees paid through 06/30/06

4306

Date



Stephen Knuttel PG 7674
CA registration fees paid through 07/31/07

3 APRIL 2006

Date

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List of Acronyms

AS	=	Analytical Sciences
BTEX	=	benzene, toluene, ethylbenzene, xylenes
Bgs	=	below ground surface
CPT	=	Cone Penetrometer Test
EDC	=	ethylene Dichloride[1]
EDB	=	ethylene Dibromide[2]
Five Oxys	=	Five ether-based oxygenates [diisopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tert-amyl methyl ether (TAME), MTBE, and tert-butyl alcohol (TBA)]
Ghilotti	=	Ghilotti Construction Company
mg/kg	=	milligrams per kilogram
MTBE	=	methyl tertiary butyl ether
NAPL	=	non aqueous phase liquid
ND	=	non-detect
Pb Scavs	=	lead scavengers (EDC, EDB)
PNEG	=	Pacific Northwest EnviroNet Group, Inc.
RDL	=	Report Detection Limit
SCDHS	=	Sonoma County Department of Health Services
SPH	=	Separate phase hydrocarbons
SRS	=	Sensitive Receptor Survey
TPH-d	=	Total petroleum hydrocarbons in the diesel range
TPH-g	=	Total petroleum hydrocarbons in the gasoline range
TTC	=	Trans Tech Consultants
μg/L	=	micrograms per liter
UN/DOT	=	United Nations/Department of Transportation
UST	=	underground storage tank

[1] EDC has been referred to as 1,2-dichloroethane (1,2-DCA) in previous reports.
[2] EDB has been referred to as 1,2-dibromoethane (1,2-DBA) in previous reports.

Introduction

SCS Engineers (SCS) is pleased to present the results of additional subsurface investigation and 1st quarter 2006 groundwater monitoring and sampling event performed at Ghilotti Construction Company, 246 Ghilotti Avenue, Santa Rosa, California. This work was performed in accordance with SCS' Work Plan and Work Plan Addendum (SCS, 2005a, 2005c) which were approved by the Sonoma County Department of Health Services (SCDHS, 2005c). The site is located as shown on the Site Location Map, Figure 1. General site features are shown on the Site Plan, Figure 2.

Background

On March 19, 1992, Trans Tech Consultants (TTC) supervised Petroleum Engineering's removal of three underground storage tanks (USTs) from the site, consisting of one 2,000-gallon gasoline UST, one 8,000-gallon diesel fuel UST, and one 7,500-gallon diesel fuel UST (Ghilotti, 1995). Analytical results from the excavation pit sampling indicated an impact by petroleum-related hydrocarbons (Ghilotti, 1995). Subsequently, in October 1992, Ghilotti Construction Company (Ghilotti), under the supervision of TTC, excavated impacted soil until either field observations or laboratory analytical results indicated that residual impacted soil had been removed from the UST excavation area (Ghilotti, 1995; PNEG, 1996). Soil and water analytical results from the excavation activities are presented in Tables 1 and 2.

Based on the results of the excavation activities, a preliminary subsurface investigation was performed at the Site. Three borings (B-1, B-2, and B-3) were subsequently drilled, sampled, and converted into monitoring wells MW-1, MW-2, and MW-3, respectively in November 1992 (Ghilotti, 1995). Soil analytical results are presented in Table 3. The monitoring wells were then placed on a quarterly monitoring program which has continued to the present.

The results of quarterly groundwater monitoring of MW-1 through MW-3 indicated the presence of MTBE in groundwater beneath the Site. The SCDHS subsequently directed additional plume characterization at the Site (SCDHS, 2001). In response to the SCDHS' directive, PNEG prepared and submitted a Work Plan for the installation of additional monitoring wells at the Site and in the Site vicinity (PNEG, 2002). The Work Plan was implemented in February 2005 which consisted of the drilling, sampling, and installation of seven additional monitoring wells (MW-04 through MW-10), and the drilling and sampling of one Cone Penetrometer Test hole (CPT) to assess the deeper groundwater bearing-zone at the Site (SCS, 2005a). Water-bearing zones were identified at approximate depths of 38 and 82 feet bgs. Grab groundwater samples were collected at these depths and were submitted for analysis. The results of the CPT study indicated that the shallow groundwater impact beneath the Site had not impacted the deeper water-bearing zones (SCS, 2005a). Soil analytical results from the February 2005 drilling program are summarized in Table 4, and the CPT groundwater analytical results are summarized in Table 5. Monitoring wells MW-04 through MW-10 were added to the existing monitoring program at the Site. The results of quarterly groundwater monitoring indicated that additional characterization of the MTBE groundwater plume was necessary and, as such, the SCDHS directed additional plume characterization (SCDHS, 2005a).

SCS subsequently submitted the Work Plan (SCS, 2005b) and Work Plan Addendum (SCS, 2005c), for additional plume characterization, the results of which are presented in this Report.

Sensitive Receptor Survey

A Sensitive Receptor Survey (SRS) was conducted for the site in September 1996 (PNEG, 1996). The subject site has a water supply well located approximately 400 feet east of the former UST locations (Figure 4). The on-site water supply well has been on a quarterly sampling program since 1998 and has been non-detect (ND) for all target analytes since April 2002 (Table 7). The Syar Asphalt site to the south of the Ghlotti property also has a water supply well located near the railroad tracks (Figure 4). Numerous residences to the north/northwest were noted to have water supply wells. Recent information obtained from an on-going investigation of the current Royal Petroleum facility northwest of the site (365 Todd Road) reveals that many of the water supply wells in the vicinity have been connected to the City of Santa Rosa Water Utility system because of a fuel release from the former facility at the Royal Petroleum site located at 365 Todd Road. No sensitive receptors, other than the on-site water supply well, were noted within 500 feet of the former UST locations.

Site Geology/Hydrogeology

The results of the January 2005 drilling program indicated a lithology generally consisting of sandy clay to sandy silt with gravel underlain by silty to sandy clays with gravel to the maximum depth explored of 21.5 feet bgs by hollow stem augers. Results from the one CPT sounding on the site revealed silts and clays with minor sand layers to a depth of approximately 85 feet bgs. Free groundwater was encountered at depths ranging from approximately 9.5 to 11.5 feet bgs. Depth to groundwater has fluctuated seasonally during this investigation from approximately 3.5 feet bgs to 15.5 feet bgs. The groundwater flow direction on the site varies throughout the year, but has been generally to the southwest at gradients ranging from 0.002 to 0.008 (Table 8).

Monitoring Well Installation – 2006

One additional monitoring well (MW-11) was drilled, sampled and installed, and three additional borings (B-09, B-10, and B-11) were drilled and sampled at the approximate locations shown on Figure 3, between the dates of February 22 and 23, 2006. The borings were drilled using 4-inch diameter solid-stem augers to a maximum depth of approximately 15 feet bgs (Appendix A). The monitoring well boring was drilled using 8-inch diameter hollow stem augers and was converted into a monitoring well using 2-inch diameter Schedule 40 flush threaded PVC material. The screened interval in the monitoring well consists of 0.020-inch, machine-slotted screen which extends from approximately 5 to 20 feet bgs. A #2/12 sand was used to create a filter pack around the screen and an approximate 2 foot thick bentonite seal was placed on top of the sand filter pack. The wells were completed to the surface with a cement seal. The PVC well casing in the monitoring well extends to within 6 inches bgs and is fitted with a waterproof locking cap. The well is protected by traffic-

rated, water-tight circular vault. Additional well completion details are presented on the Well Completion Diagram, Appendix B.

Soil samples were collected and examined for lithology from the monitoring well boring beginning at an approximate depth of 5 feet bgs, and every 5 feet thereafter to a maximum depth of approximately 21.5 feet bgs, and in the borings beginning at approximate depths of 5 feet, and 10 feet bgs. In accordance with the Work Plan (SCS, 2005b, 2005c), no soil samples were collected for laboratory analysis. Grab groundwater samples were collected from each of the borings using a separate disposable bailer for each borehole and were placed into the appropriate containers supplied by the laboratory for analysis. Groundwater samples were labeled, stored under refrigerated conditions, and transported under Chain-of-Custody documentation to Analytical Sciences (AS) of Petaluma, California for analysis. AS is a California Department of Health Services certified laboratory for the analysis requested. Copies of AS' current certifications have been reviewed and are on file. The soil samples were collected following Standard Soil and Water Sampling Procedures and QA/QC Protocol.

The augers were pressure washed, and the small sampling equipment was washed in a detergent solution and rinsed. The drill cuttings were placed on and covered with plastic sheeting, pending disposal. The water generated by decontamination, well development, and sampling is stored at the site in steel 55-gallon UN/DOT-approved drums, pending disposal. Options for the disposal of the soil and groundwater are being evaluated.

Well Development

The newly installed monitoring well (MW-11) was swabbed to set the filter pack during well installation to the extent feasible. The well was developed on March 1, 2006 using a surge block and a submersible field portable groundwater purging pump. Information obtained during well development was recorded on a field sampling form from which a Well Development Record was generated, a copy of which is presented in Appendix C.

Groundwater Monitoring

During the February 7, 2006 monitoring and sampling event, the field technician reported that MW-1 and MW-5 had been covered up as a result of recent paving activities performed by Ghilotti. As such, MW-1 and MW-5 were not accessible during the February 7, 2006 event.

Groundwater depths were measured from MW-2 through MW-4, and MW-6 through MW-10 on February 7, 2006. After Ghilotti uncovered MW-1 and MW-5, SCS returned to the Site on March 1, 2006 and groundwater depths were measured from MW-1, MW-5, and the newly installed well (MW-11). Groundwater depths ranged from approximately 2.5 to 5.5 feet bgs. The depth-to-groundwater measurements from the wells measured on February 7, 2006 were combined with the well casing elevations to determine the groundwater flow direction and gradient. Casing and groundwater elevations are reported in feet relative to mean sea level. Depths to groundwater are

expressed in feet. For the 1st quarter 2006 monitoring event, the groundwater flow direction was calculated to be southwesterly at a gradient of 0.01 feet per foot (Figure 2, Table 8).

Groundwater Sampling

After the newly installed monitoring well was developed, it was allowed to set prior to collecting a depth to groundwater measurement, which occurred on March 1, 2006. After groundwater depths were measured from the wells, they were checked for the presence of separate phase hydrocarbons (SPH) by subjective evidence and using an oil/water interface probe. No SFH were reported during this monitoring event. The wells were then purged using a submersible pump. Temperature, pH, conductivity, turbidity, and dissolved oxygen were measured during purging to help demonstrate that fresh groundwater was entering the well casing for sampling. Information obtained during sampling was recorded on field sampling forms from which Well Purge Records were generated, copies of which are presented in Appendix C. Each well was allowed to recover prior to sampling. Groundwater samples were collected using a separate disposable bailer for each well, and were transferred into the appropriate containers supplied by the laboratory for analysis. The samples were labeled, stored under refrigerated conditions, and transported under Chain-of-Custody to AS. All samples were collected following Standard Soil and Water Sampling Procedures and QA/QC Protocol. The groundwater generated during the recent well sampling activities is stored at the site in 55-gallon UN/DOT-approved drums, pending disposal.

Well Survey

The top of the new monitoring well casing (MW-11) was surveyed under the supervision of a California licensed land surveyor to 0.01 feet to determine its elevation relative to mean sea level on March 27, 2006. In addition, the latitude and longitude of the monitoring well has been determined to within 1 meter. The surveyed monitoring well elevation and monitoring well location will be submitted electronically to the State Department of Water Resources Geotracker database. A copy of the Well Survey Report is presented in Appendix D.

Laboratory Analysis

Groundwater samples collected from the borings were analyzed for:

- BTEX, the five ether-based oxygenates (MTBE, DIPE, ETBE, TAME, and TBA), and lead scavengers by EPA Method 8260B.

Groundwater samples collected from MW-2 through MW-04, and MW-06 through MW-10, and DW-246 were analyzed for:

- The five ether-based oxygenates by EPA Method 8260B.

Groundwater samples collected from MW-1, MW-05, and MW-11 were analyzed for:

- TPH-g by EPA Method 8015M
- BTEX, and the five ether-based oxygenates by EPA Method 8260B.

Groundwater Analytical Results

The analytical results for the 1st quarter 2006 sampling event conducted on February 7, and subsequent sampling on March 1, 2006 are summarized in Table 6, contoured on the isoconcentration map for MTBE, Figure 3, and plotted on the time versus concentration figure, Figure 5.

For the 1st Quarter 2006 sampling event, MTBE was detected in samples collected from each of the previously existing wells, excluding MW-05, MW-06, and MW-08, at concentrations ranging from 1.0 µg/L in MW-04 to 30 µg/L in MW-1; and in the newly installed well, MW-11, at a concentration of 4.4 µg/L. The additional target analytes were not detected above the laboratory RDL in any of the monitoring well samples.

The groundwater samples collected from borings B-09, B-10, and B-11 were below the laboratory RDL for all target analytes. Groundwater analytical results are presented in Table 6. Copies of the analytical laboratory reports are presented in Appendix E.

Discussion

With the installation and subsequent sampling of the newly installed well MW-11 and groundwater analytical results collected from borings B-09, B-10, and B-11, the extent of the MTBE-impacted groundwater plume appears to be generally assessed to below the San Francisco Bay Regional Water Quality Control Board's Environmental Screening Level (ESL) of 5 µg/L (Figure 3). Additionally, as indicated on Figure 5, MTBE concentrations in MW-1, MW-2, and MW-3 appear to be declining over time.

Recommendations

SCS recommends continued monitoring at the site to confirm the recent analytical results generated from the newly installed well and to confirm that the groundwater plume has been generally assessed. Based on current and past results from the site, SCS recommends that the analytical suite for future groundwater monitoring at the Site be limited to MTBE by EPA Method 8020. The additional oxygenates have never been detected above the laboratory RDLs in any of the project monitoring wells. Further, a detection limit of 12 µg/L for TBA has been used for the past two consecutive sampling events at the Site pursuant to a previous request from the SCDHS (SCDHS, 2005b) in response to SCS' prior request to limit the analytical suite at the Site to MTBE only.

Water Disposal

On January 10, 2006, Integrated Wastestream Management transported 1 drums of non-hazardous water to Seaport Refining & Environmental disposal facility in Redwood City. A copy of the Certificate of Disposal is presented in Appendix F.

Reference List

Ghilotti, 1995. Personal communication between D. Ghilotti and L. Mackey-Taverner, June 26.
PNEG, 1996. Monitoring Report, Sensitive Site Receptor Survey, and Request for Site Closure, 246 Ghilotti Avenue, Santa Rosa, California, October 15.
PNEG, 2002. Work Plan to Define the Lateral and Vertical Extent of MTBE Contamination- 246 Ghilotti Avenue, Santa Rosa, California, May 28.
SCDHS, 2001. Work Plan directive, September 12.
SCDHS, 2002. Work Plan approval, June 24.
SCDHS, 2005a. Work Plan directive, dated July 11.
SCDHS, 2005b. Regulatory letter re: using detection limit of 12 µg/L for TBA, September 12.
SCDHS, 2005c. Work Plan approval, November 14.
SCS, 2005a. Results of Additional Subsurface Investigation, at 246 Ghilotti Avenue, Santa Rosa, California, May 6.
SCS, 2005b. Work Plan for Additional Subsurface Investigation, at 246 Ghilotti Avenue, Santa Rosa, California, September 9.
SCS, 2005c. Work Plan Addendum, dated December 5.

Distribution List

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Figures

Source: Mappoint.com

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PROJ. NO:	TAKEN BY:	FILE:
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DATE:	CREATED BY	APP. BY:
3/22/06	MRO	

SITE LOCATION MAP

Ghilotti Construction Company
246 Ghilotti Avenue
Santa Rosa, California

APPROX. SCALE
(SEE ABOVE)

FIGURE
1

PROPERTY BOUNDARY
FENCELINE

ENTRANCE GATE

BUILDING D

WATER TANK

DW

GRAVEL

PROPERTY BOUNDARY
FENCELINE

DRAINAGE DITCH

GATE

MW-08 [98.37]

MW-07 [100.17]

MW-06 [100.95]

APPROXIMATE EXTENTS OF FORMER INITIAL EXCAVATION BACKFILLED

APPROXIMATE EXTENTS OF FORMER FINAL EXCAVATION BACKFILLED

MW-2 [99.77]

MW-1 [NM]

MW-05 [NM]

MW-09 [98.46]

APPROXIMATE LOCATION OF FORMER UST'S (3)

MW-3 [99.38]

MW-10 [98.04]

MW-04 [98.31]

MW-11 [NM]

100.5

99.5

98.5

FUEL TRUCK PARKING

GRAVEL

MAINTENANCE SHOP

STORAGE

OIL STORAGE SHEDS

STORAGE CONTAINER

GHILOTTI AVENUE

PAVED AREA

PARKING AREA

STORAGE

STORAGE

STORAGE CONTAINERS

FIELD OFFICE/ TRAILERS

GATE

PARKING AREA

ADMINISTRATION

OFFICE

FENCELINE
PROPERTY BOUNDARY

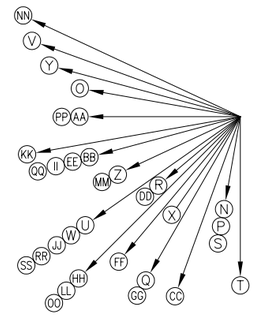
BOX CULVERT

APPROXIMATE SCALE

0 70 140

(IN FEET)
1" = 70'

HISTORICAL GROUNDWATER FLOW DIRECTION



LEGEND

- APPROXIMATE LOCATION OF PROPERTY BOUNDARY
- MW-n — MONITORING WELL LOCATION [XX.XX] = GROUNDWATER ELEVATION NM = NOT MEASURED
- BORING LOCATION
- DW — DOMESTIC WELL LOCATION
- DROP INLET

Note: Groundwater elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).

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1203312.00	JJM	3312.00_SP_3-06
DATE: 03/29/06	CHK. BY: KLC	APP. BY: KLC

SHEET TITLE
SITE PLAN – GROUNDWATER FLOW DIRECTION AND GRADIENT FOR 02/07/06

PROJECT TITLE
GHILOTTI CONSTRUCTION COMPANY
246 GHILOTTI AVENUE
SANTA ROSA, CALIFORNIA

SCALE:
1" = 70±'

FIGURE NO.
2
SHEET 1 OF 2

GROUNDWATER FLOW LEGEND

Estimated Groundwater Flow Direction → (A)

Gradient Contour (Interval = 1.0 ft/foot) ----------

Identifier Tag	Date	Est. Flow Direction	Gradient Slope
N	6/24/96	S10°W	i = 0.005
O	12/20/96	N80°W	i = 0.003
P	4/18/97	S10°W	i = 0.005
Q	9/11/97	S30°W	i = 0.006
R	6/19/98	S48°W	i = 0.002
S	3/3/99	S10°W	i = 0.002
T	6/2/99	Due South	i = 0.008
U	12/28/99	S55°W	i = 0.003
V	3/23/00	N68°W	i = 0.03
W	6/20/00	S55°W	i = 0.003
X	10/3/00	S35°W	i = 0.005
Y	1/9/01	N75°W	i = 0.002
Z	4/10/01	S65°W	i = 0.003
(AA)	7/11/01	West	i = 0.003
(BB)	10/10/01	S75°W	i = 0.004
(CC)	1/9/02	S20°W	i = 0.003
(DD)	4/5/02	S50°W	i = 0.002
(EE)	7/3/02	S75°W	i = 0.004
(FF)	10/24/02	S40°W	i = 0.005
(GG)	1/22/03	S30°W	i = 0.002
(HH)	4/17/03	S45°W	i = 0.002
(II)	7/14/03	S75°W	i = 0.003
(JJ)	10/7/03	S55°W	i = 0.004
(KK)	1/2/04	S80°W	i = 0.002
(LL)	4/6/04	S45°W	i = 0.002
(MM)	7/7/04	S65°W	i = 0.003
(NN)	11/11/04	N60°W	i = 0.003
(OO)	2/11/05	SW	i = 0.002
(PP)	7/6/05	West	i = 0.005
(QQ)	8/19/05	W to SW	i = 0.002
(RR)	11/18/05	South-westerly	i = 0.005
(SS)	2/7, 3/1/06	South-westerly	i = 0.01

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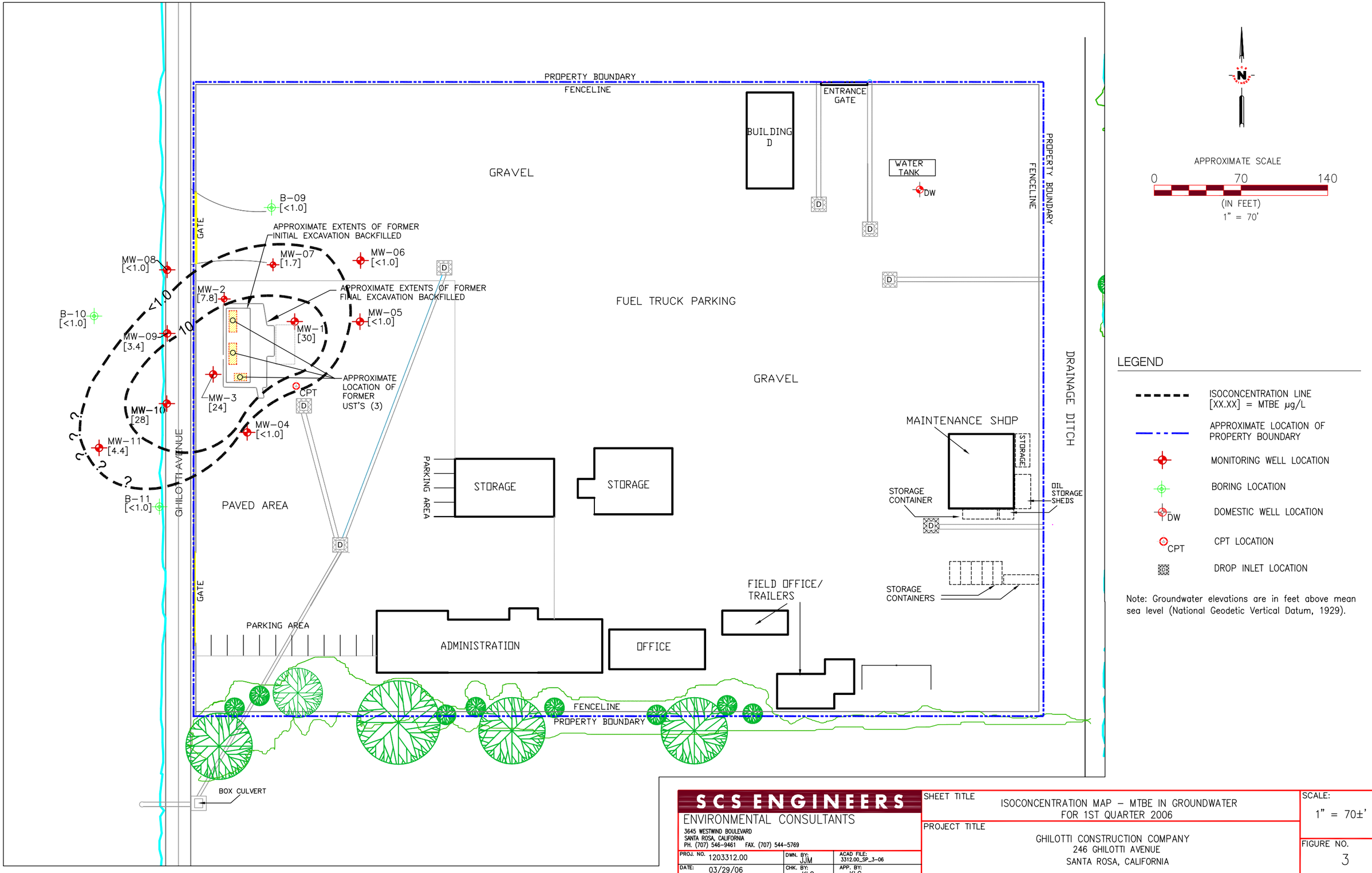
3312.00	AJH/JJM	3312.00-GW.3-06
DATE	CHK. BY:	APP. BY:
03/29/06	KLC	KLC

SHEET TITLE: SITE PLAN – GROUNDWATER FLOW DIRECTION AND GRADIENT FOR 02/07/06

PROJECT TITLE: GHILOTTI CONSTRUCTION COMPANY
246 GHILOTTI AVENUE
SANTA ROSA, CALIFORNIA

SCALE: 1" = 70±'

FIGURE NO. 2



APPROXIMATE SCALE

0 70 140

(IN FEET)

1" = 70'

LEGEND

- ISOCONCENTRATION LINE [XX.XX] = MTBE µg/L
- APPROXIMATE LOCATION OF PROPERTY BOUNDARY
- MONITORING WELL LOCATION
- BORING LOCATION
- DW DOMESTIC WELL LOCATION
- CPT CPT LOCATION
- DROP INLET LOCATION

Note: Groundwater elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).

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DATE: 03/29/06	CHK. BY: KLC	APP. BY: KLC

SHEET TITLE: ISOCONCENTRATION MAP – MTBE IN GROUNDWATER FOR 1ST QUARTER 2006

PROJECT TITLE: GHILOTTI CONSTRUCTION COMPANY
246 GHILOTTI AVENUE
SANTA ROSA, CALIFORNIA

SCALE: 1" = 70±'

FIGURE NO. 3

LEGEND

- APPROXIMATE 1000' RADIUS FROM FORMER TANK LOCATIONS
- APPROXIMATE SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- APPROXIMATE WATER SUPPLY WELL LOCATION
- APPROXIMATE DOMESTIC WELL LOCATION

N

GRAPHIC SCALE

300 0 300 600

(IN FEET)

1" = 300Ft.±

SOURCE: CITY OF SANTA ROSA GIS WEBSITE; 2004 4' AERIAL.

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SHEET TITLE
SENSITIVE RECEPTORS MAP

PROJECT TITLE
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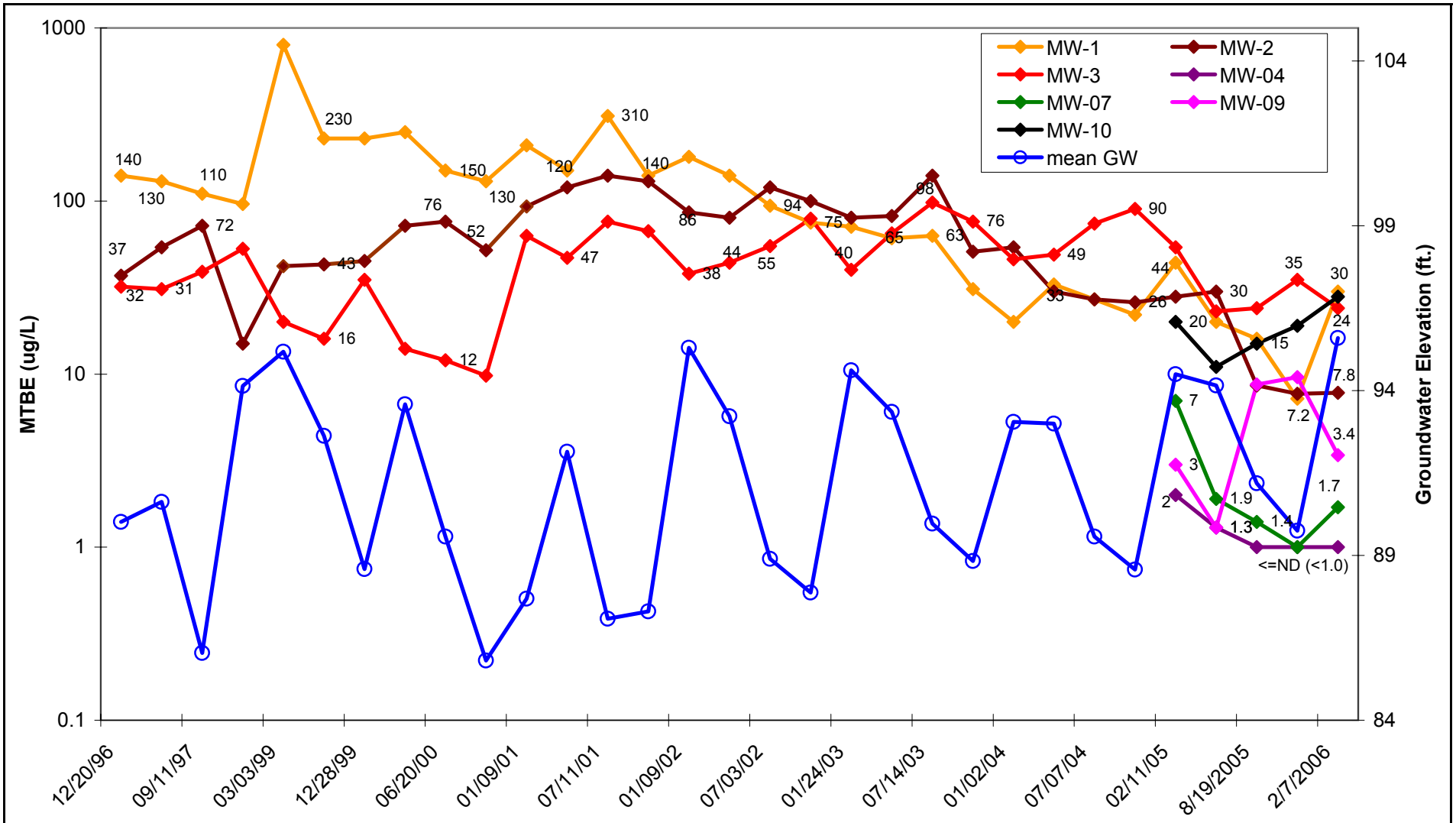
SANTA ROSA, CALIFORNIA

SCALE:
1" = 300' ±

FIGURE NO.
4



Note: MW-1, MW-2, and MW-04 were inaccessible for the June 13, 2005 sampling event. All other wells not plotted have been below the laboratory RDL for MTBE.

SCS ENGINEERS	**MTBE & Groundwater Elevation vs Time**	**FIGURE**
3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA PH: (707) 546-9461 FX: (707)544-5769	Ghilotti Construction Company 246 Ghilotti Avenue Santa Rosa, California	**5**
Drawn By: KLC / File Name: MTBE-GW	Job Number: 01203312.00	DATE: 03/15/06

Tables

Table 1: Historical Soil Excavation, Stockpile and Groundwater Sample Analytical Results
246 Ghilotti Avenue, Santa Rosa

Sample ID	Date	TPH-g	TPH-d	Lead	benzene	toluene	ethylbenzene	xylenes
		----------mg/kg----------						
SW-1E	03/19/92	ND	-----	5.3	ND	ND	ND	ND
SW-1W	03/19/92	ND	-----	5.3	ND	ND	ND	ND
SW-2E	03/19/92	-----	ND	-----	ND	ND	ND	ND
SW-2W	03/19/92	-----	ND	-----	ND	ND	ND	ND
SW-3E	03/19/92	-----	12	-----	ND	ND	ND	ND
SW-3W	03/19/92	-----	10*	-----	ND	ND	ND	ND
SP-1	03/19/92	380**	-----	18	ND	ND	ND	0.056
SP-2	03/19/92	-----	970	-----	ND	0.11	0.08	0.43
SP-3	03/19/92	-----	1800	-----	ND	ND	ND	ND
FI-1	03/19/92	170**	1100	5.1	ND	ND	ND	0.12
Groundwater	----------mg/L----------							
GW-1	3/19/92	14**	38	0.018	0.011	ND	0.0059	0.024

* The positive result for TPH-d appears to be a heavier hydrocarbon than diesel.

** The positive result for TPH-g appears to be a heavier hydrocarbon than gasoline.

Table 2: Historical Excavation Soil Sample Results
246 Ghilotti Avenue, Santa Rosa

Sample ID	Date	TPH-g	TPH-d	Lead	benzene	toluene	ethylbenzene	xylenes
		----------mg/kg----------						
SW-1	10/01/92	ND	ND	4.5	ND	ND	ND	ND
SW-2	10/01/92	ND	ND	4.1	ND	ND	ND	ND
SW-3	10/01/92	ND	ND	6	ND	ND	ND	ND
SW-4	10/01/92	ND	ND	4.1	ND	ND	ND	ND
B-1	10/01/92	ND	ND	6.1	ND	ND	ND	ND
B-2	10/01/92	ND	1.8	3.8	ND	ND	ND	ND
B-3	10/07/92	1.8*	88	6.2	ND	ND	ND	ND
B-4	10/07/92	ND	23	7.4	ND	ND	ND	ND
B-5	10/07/92	ND	ND	4.9	ND	ND	ND	ND
B-6	10/13/92	ND	ND	6.3	ND	ND	ND	ND
B-7	10/13/92	ND	ND	6.9	ND	ND	ND	ND
B-8	10/13/92	ND	ND	5.9	ND	ND	ND	ND

* The positive result for TPH-g appears to be a heavier hydrocarbon than gasoline.

Table 3: Soil Sample Results - Borings B-1 through B-3 (MW-1 through MW-3)
246 Ghilotti Avenue, Santa Rosa

Sample ID	Date	TPH-g	TPH-d	Lead	benzene	toluene	ethylbenzene	xylenes
		----------mg/kg----------						
B-1-9.0	11/09/92	ND	ND	4.0	ND	ND	ND	ND
B-2-8.0		ND	ND	4.8	ND	ND	ND	ND
B-3-9.5		ND	ND	4.9	ND	ND	ND	ND

ND = Not Detected above the laboratory report detection limit.

Table 4: Soil Analytical Results - Monitoring Wells - 2005
246 Ghilotti Avenue, Santa Rosa

ID	Date	TPH-g	TPH-d	benzene	toluene	ethylbenzene	xylenes	MTBE
		mg/kg						
MW-04@5.5'	02/01/05	<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-04@10.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-04@15.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-04@20.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-05@5.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-05@11.0'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-05@15.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-06@5.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-06@10.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-06@15.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-07@6.5'	02/02/05	<1.0	NA**	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-07@11.0'*		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-07@15.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-08@5.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-08@10.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-08@15.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-09@5.5'	02/03/05	<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-09@11.0'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-09@16.0'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-10@6.0'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-10@10.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025
MW-10@15.5'		<1.0	<5.0	<0.005	<0.005	<0.005	<0.0015	<0.0025

* Contained lead at a concentration of 3.6 mg/kg.
** Limited sample recovery.
NA = Not Analyzed

Table 5: CPT Groundwater Analytical Results
246 Ghilotti Avenue, Santa Rosa

Sample ID	Date	TPH-g	TPH-d	MTBE	benzene	toluene	ethylbenzene	xylenes	Other Oxys*
		µg/L							
CPT-01@38.0'	03/02/05	<50	<50	2.8*	<1.0	<1.0	<1.0	<1.0	<1.0
CPT-01@82.0'	03/02/05	<50	<50	<1.0*	<1.0	<1.0	<1.0	<1.0	<1.0

Note: * Analysis for MTBE by EPA Method 8020; Analysis for 5 oxy's (including MTBE) by EPA Method 8260B; <25 µg/L For TBA.

Table 6: Boring Groundwater Analytical Results - 2006
246 Ghilotti Avenue, Santa Rosa

Sample ID	Date	TPH-g	benzene	toluene	ethylbenzene	xylenes	MTBE	Other Oxys	Pb Scavs
		µg/L							
B-9	02/23/06	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 to <12	<1.0
B-10	02/23/06	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 to <12	<1.0
B-11	02/23/06	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 to <12	<1.0

Table 7: Groundwater Analytical Results - Monitoring Wells
246 Ghilotti Avenue, Santa Rosa

ID	Date Sampled	TPH-g	TPH-d	benzene	toluene	ethylbenzene	xylenes	MTBE*	DIPE	ETBE	TAME	TBA
		µg/L										
MW-1	06/24/96	<50	<50	<0.3	<0.3	<0.5	<0.5	NA	NA	NA	NA	NA
	12/20/96	<50	<50	<0.3	<0.3	<0.5	<0.5	**140**	NA	NA	NA	NA
	04/18/97	<50	NA	<0.3	<0.3	<0.5	<0.5	**130**	NA	NA	NA	NA
	09/11/97	<50	NA	<0.3	<0.3	<0.5	<0.5	**110**	NA	NA	NA	NA
	06/19/98	<50	NA	<0.3	<0.3	<0.5	<0.5	**96**	<1.0	<1.0	<1.0	<25
	03/03/99	<50	<50	<0.3	<0.3	<0.5	<0.5	**800**	NA	NA	NA	NA
	03/24/99	<50	<50	<0.3	<0.3	<0.5	<0.5	**360**	NA	NA	NA	NA
	03/26/99	<50	<50	<0.3	<0.3	<0.5	<0.5	**250**	NA	NA	NA	NA
	06/02/99	<50	<50	<0.3	<0.3	<0.5	<0.5	**230**	NA	NA	NA	NA
	12/28/99	<50	NA	<0.3	0.66	<0.5	<0.5	**230**	<1.0	<1.0	<1.0	<25
	03/23/00	<50	<50	<0.3	<0.3	<0.5	<0.5	**250**	<1.0	<1.0	<1.0	<25
	06/20/00	<50	<50	<0.3	<0.3	<0.5	<0.5	**150**	<1.0	<1.0	<1.0	<25
	10/03/00	NA	NA	NA	NA	NA	NA	**130**	<1.0	<1.0	<1.0	<25
	01/09/01	NA	NA	NA	NA	NA	NA	**210**	<1.0	<1.0	<1.0	<25
	04/10/01	NA	NA	NA	NA	NA	NA	**150**	NA	NA	NA	NA
	07/10/01	NA	NA	NA	NA	NA	NA	**310**	NA	NA	NA	NA
	10/10/01	NA	NA	NA	NA	NA	NA	**140**	NA	NA	NA	NA
	01/09/02	NA	NA	NA	NA	NA	NA	**180**	NA	NA	NA	NA
	04/05/02	NA	NA	NA	NA	NA	NA	**140**	<1.0	<1.0	<1.0	<25
	07/03/02	NA	NA	NA	NA	NA	NA	**94**	<1.0	<1.0	<1.0	<25
	10/24/02	NA	NA	NA	NA	NA	NA	**75**	<1.0	<1.0	<1.0	<25
	01/24/03	NA	NA	NA	NA	NA	NA	**71**	<1.0	<1.0	<1.0	<25
	04/17/03	NA	NA	NA	NA	NA	NA	**61**	<1.0	<1.0	<1.0	<25
	07/14/03	NA	NA	NA	NA	NA	NA	**63**	<1.0	<1.0	<1.0	<25
	10/07/03	NA	NA	NA	NA	NA	NA	**31**	<1.0	<1.0	<1.0	<25
	01/02/04	NA	NA	NA	NA	NA	NA	**20**	<1.0	<1.0	<1.0	<25
	04/06/04	NA	NA	NA	NA	NA	NA	**33**	<1.0	<1.0	<1.0	<25
	07/07/04	NA	NA	NA	NA	NA	NA	**27**	<1.0	<1.0	<1.0	<25
	11/23/04	NA	NA	NA	NA	NA	NA	**22**	NA	NA	NA	NA
	02/11/05	NA	NA	NA	NA	NA	NA	**44**	<1.0	<1.0	<1.0	<25
	06/13/05	Well inaccessible										
	08/19/05	NA	NA	NA	NA	NA	NA	**16**	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	**7.2**	<1.0	<1.0	<1.0	<12
	03/01/06	NA	NA	NA	NA	NA	NA	**30**	<1.0	<1.0	<1.0	<12

Table 7: Groundwater Analytical Results - Monitoring Wells
246 Ghilotti Avenue, Santa Rosa

ID	Date Sampled	TPH-g	TPH-d	benzene	toluene	ethylbenzene	xylenes	MTBE*	DIPE	ETBE	TAME	TBA
		µg/L										
MW-2	06/24/96	<50	<50	<0.3	<0.3	<0.5	<0.5	NA	NA	NA	NA	NA
	12/20/96	<50	<50	<0.3	<0.3	<0.5	<0.5	**37**	NA	NA	NA	NA
	04/18/97	<50	NA	<0.3	<0.3	<0.5	<0.5	**54**	NA	NA	NA	NA
	09/11/97	<50	NA	<0.3	<0.3	<0.5	<0.5	**72**	NA	NA	NA	NA
	06/19/98	<50	NA	<0.3	<0.3	<0.5	<0.5	**15**	<1.0	<1.0	<1.0	<25
	03/03/99	<50	<50	<0.3	<0.3	<0.5	<0.5	**42**	NA	NA	NA	NA
	06/02/99	<50	<50	<0.3	<0.3	<0.5	<0.5	**43**	NA	NA	NA	NA
	12/28/99	<50	NA	<0.3	<0.3	<0.5	<0.5	**45**	<1.0	<1.0	<1.0	<25
	03/23/00	<50	<50	<0.3	<0.3	<0.5	<0.5	**72**	<1.0	<1.0	<1.0	<25
	06/20/00	<50	<50	<0.3	<0.3	<0.5	<0.5	**76**	<1.0	<1.0	<1.0	<25
	10/03/00	NA	NA	NA	NA	NA	NA	**52**	<1.0	<1.0	<1.0	<25
	01/09/01	NA	NA	NA	NA	NA	NA	**93**	<1.0	<1.0	<1.0	<25
	04/10/01	NA	NA	NA	NA	NA	NA	**120**	NA	NA	NA	NA
	07/10/01	NA	NA	NA	NA	NA	NA	**140**	NA	NA	NA	NA
	10/10/01	NA	NA	NA	NA	NA	NA	**130**	NA	NA	NA	NA
	01/09/02	NA	NA	NA	NA	NA	NA	**86**	NA	NA	NA	NA
	04/05/02	NA	NA	NA	NA	NA	NA	**80**	<1.0	<1.0	<1.0	<25
	07/03/02	NA	NA	NA	NA	NA	NA	**120**	<1.0	<1.0	<1.0	<25
	10/24/02	NA	NA	NA	NA	NA	NA	**100**	<1.0	<1.0	<1.0	<25
	01/24/03	NA	NA	NA	NA	NA	NA	**80**	<1.0	<1.0	<1.0	<25
	04/17/03	NA	NA	NA	NA	NA	NA	**82**	<1.0	<1.0	<1.0	<25
	07/14/03	NA	NA	NA	NA	NA	NA	**140**	<1.0	<1.0	<1.0	<25
	10/07/03	NA	NA	NA	NA	NA	NA	**51**	<1.0	<1.0	<1.0	<25
	01/02/04	NA	NA	NA	NA	NA	NA	**54**	<1.0	<1.0	<1.0	<25
	04/06/04	NA	NA	NA	NA	NA	NA	**30**	<1.0	<1.0	<1.0	<25
	07/07/04	NA	NA	NA	NA	NA	NA	**27**	<1.0	<1.0	<1.0	<25
	11/23/04	NA	NA	NA	NA	NA	NA	**26**	<1.0	<1.0	<1.0	<25
	02/11/05	NA	NA	NA	NA	NA	NA	**28**	<1.0	<1.0	<1.0	<25
	06/13/05	Well inaccessible										
	08/19/05	NA	NA	NA	NA	NA	NA	**8.6**	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	**7.7**	<1.0	<1.0	<1.0	<12
	02/07/06	NA	NA	NA	NA	NA	NA	**7.8**	<1.0	<1.0	<1.0	<12

Table 7: Groundwater Analytical Results - Monitoring Wells
246 Ghilotti Avenue, Santa Rosa

ID	Date Sampled	TPH-g	TPH-d	benzene	toluene	ethylbenzene	xylenes	MTBE*	DIPE	ETBE	TAME	TBA
		µg/L										
MW-3	06/24/96	<50	<50	<0.3	<0.3	<0.5	<0.5	NA	NA	NA	NA	NA
	12/20/96	<50	<50	<0.3	<0.3	<0.5	<0.5	**32**	NA	NA	NA	NA
	04/18/97	<50	NA	<0.3	<0.3	<0.5	<0.5	**31**	NA	NA	NA	NA
	09/11/97	<50	NA	<0.3	<0.3	<0.5	<0.5	**39**	NA	NA	NA	NA
	06/19/98	<50	NA	<0.3	<0.3	<0.5	<0.5	**53**	<1.0	<1.0	<1.0	<25
	03/03/99	<50	<50	<0.3	<0.3	<0.5	<0.5	**20**	NA	NA	NA	NA
	06/02/99	<50	<50	<0.3	<0.3	<0.5	<0.5	**16**	NA	NA	NA	NA
	12/28/99	<50	NA	<0.3	0.45	<0.5	<0.5	**35**	<1.0	<1.0	<1.0	<25
	03/23/00	<50	<50	<0.3	<0.3	<0.5	<0.5	**14**	<1.0	<1.0	<1.0	<25
	06/20/00	<50	<50	<0.3	<0.3	<0.5	<0.5	**12**	<1.0	<1.0	<1.0	<25
	10/03/00	NA	NA	NA	NA	NA	NA	**9.8**	<1.0	<1.0	<1.0	<25
	01/09/01	NA	NA	NA	NA	NA	NA	**63**	<1.0	<1.0	<1.0	<25
	04/10/01	NA	NA	NA	NA	NA	NA	**47**	NA	NA	NA	NA
	07/10/01	NA	NA	NA	NA	NA	NA	**76**	NA	NA	NA	NA
	10/10/01	NA	NA	NA	NA	NA	NA	**67**	NA	NA	NA	NA
	01/09/02	NA	NA	NA	NA	NA	NA	**38**	NA	NA	NA	NA
	04/05/02	NA	NA	NA	NA	NA	NA	**44**	<1.0	<1.0	<1.0	<25
	07/03/02	NA	NA	NA	NA	NA	NA	**55**	<1.0	<1.0	<1.0	<25
	10/24/02	NA	NA	NA	NA	NA	NA	**79**	<1.0	<1.0	<1.0	<25
	01/24/03	NA	NA	NA	NA	NA	NA	**40**	<1.0	<1.0	<1.0	<25
	04/17/03	NA	NA	NA	NA	NA	NA	**65**	<1.0	<1.0	<1.0	<25
	07/14/03	NA	NA	NA	NA	NA	NA	**98**	<1.0	<1.0	<1.0	<25
	10/07/03	NA	NA	NA	NA	NA	NA	**76**	<1.0	<1.0	<1.0	<25
	01/02/04	NA	NA	NA	NA	NA	NA	**46**	<1.0	<1.0	<1.0	<25
	04/06/04	NA	NA	NA	NA	NA	NA	**49**	<1.0	<1.0	<1.0	<25
	07/07/04	NA	NA	NA	NA	NA	NA	**74**	<1.0	<1.0	<1.0	<25
	11/23/04	NA	NA	NA	NA	NA	NA	**90**	<1.0	<1.0	<1.0	<25
	02/11/05	NA	NA	NA	NA	NA	NA	**54**	<1.0	<1.0	<1.0	<25
	06/13/05	NA	NA	NA	NA	NA	NA	**23**	<1.0	<1.0	<1.0	<25
	08/19/05	NA	NA	NA	NA	NA	NA	**24**	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	**35**	<1.0	<1.0	<1.0	<12
	02/07/06	NA	NA	NA	NA	NA	NA	**24**	<1.0	<1.0	<1.0	<12

Table 7: Groundwater Analytical Results - Monitoring Wells
246 Ghilotti Avenue, Santa Rosa

ID	Date Sampled	TPH-g	TPH-d	benzene	toluene	ethylbenzene	xylenes	MTBE*	DIPE	ETBE	TAME	TBA
		µg/L										
MW-04	02/11/05	<50	NA	<1.0	<1.0	<1.0	**1.1**	**1.9**	<1.0	<1.0	<1.0	<25
	06/13/05	Well inaccessible										
	08/19/05	NA	NA	NA	NA	NA	NA	**1.0**	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<12
	02/07/06	NA	NA	NA	NA	NA	NA	**1.0**	<1.0	<1.0	<1.0	<12
MW-05	02/11/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	06/13/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<25
	08/19/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<12
	03/01/06	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<12
MW-06	02/11/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	06/13/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<25
	08/19/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<12
	02/07/06	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<12
MW-07	02/11/05	<50	NA	<1.0	<1.0	<1.0	<1.0	**6.9**	<1.0	<1.0	<1.0	<25
	06/13/05	NA	NA	NA	NA	NA	NA	**1.9**	<1.0	<1.0	<1.0	<25
	08/19/05	NA	NA	NA	NA	NA	NA	**1.4**	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<12
	02/07/06	NA	NA	NA	NA	NA	NA	**1.7**	<1.0	<1.0	<1.0	<12

Table 7: Groundwater Analytical Results - Monitoring Wells
246 Ghilotti Avenue, Santa Rosa

ID	Date Sampled	TPH-g	TPH-d	benzene	toluene	ethylbenzene	xylenes	MTBE*	DIPE	ETBE	TAME	TBA
		µg/L										
MW-08	02/11/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	06/13/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<25
	08/19/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<12
	02/07/06	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<12
MW-09	02/11/05	<50	NA	<1.0	<1.0	<1.0	<1.0	**3.2**	<1.0	<1.0	<1.0	<25
	06/13/05	NA	NA	NA	NA	NA	NA	**1.3**	<1.0	<1.0	<1.0	<25
	08/19/05	NA	NA	NA	NA	NA	NA	**8.7**	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	**9.6**	<1.0	<1.0	<1.0	<12
	02/07/06	NA	NA	NA	NA	NA	NA	**3.4**	<1.0	<1.0	<1.0	<12
MW-10	02/11/05	<50	NA	<1.0	<1.0	<1.0	<1.0	**20**	<1.0	<1.0	<1.0	<25
	06/13/05	NA	NA	NA	NA	NA	NA	**11**	<1.0	<1.0	<1.0	<25
	08/19/05	NA	NA	NA	NA	NA	NA	**15**	<1.0	<1.0	<1.0	<25
	11/18/05	NA	NA	NA	NA	NA	NA	**19**	<1.0	<1.0	<1.0	<12
	02/07/06	NA	NA	NA	NA	NA	NA	**28**	<1.0	<1.0	<1.0	<12
MW-11	03/01/06	<50	NA	<1.0	<1.0	<1.0	<1.0	**4.4**	<1.0	<1.0	<1.0	<12

Note:

*Analysis for MTBE by EPA Method 8020; Analysis for 5 oxy's (including MTBE) by EPA Method 8260B.

Table 8: Domestic Well Analytical Results
246 Ghilotti Avenue, Santa Rosa

ID	Date Sampled	TPH-g	TPH-d	benzene	toluene	ethylbenzene	xylenes	MTBE*	Other Oxys*
		µg/L							
DW-1	07/21/98	<50	NA	<50	<0.3	<0.5	<0.5	**3.4**	NA
	08/05/99	<50	NA	<50	<0.3	<0.5	<0.5	**3.0**	NA
	12/28/99	<50	NA	<50	<0.3	<0.5	<0.5	**1.0**	<1.0
	03/23/00	<50	<50	<50	<0.3	<0.5	<0.5	**1.5**	<1.0
	06/20/00	<50	<50	<50	<0.3	<0.5	<0.5	<1.0	<1.0
	10/03/00	NA	NA	NA	NA	NA	NA	**1.5**	<1.0
	01/09/01	NA	NA	NA	NA	NA	NA	**1.1**	<1.0
	04/10/01	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	07/10/01	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	10/10/01	NA	NA	NA	NA	NA	NA	<1.0	NA
	02/14/02	NA	NA	NA	NA	NA	NA	<1.0	NA
	04/05/02	NA	NA	NA	NA	NA	NA	**0.59**	<1.0
	07/03/02	NA	NA	NA	NA	NA	NA	<0.5	<1.0
	10/24/02	NA	NA	NA	NA	NA	NA	<0.5	<1.0
	02/14/03	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	04/17/03	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	07/14/03	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	10/07/03	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	01/02/04	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	04/06/04	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	07/07/04	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	11/23/04	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	02/11/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0
	08/19/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0 to <25
	11/18/05	NA	NA	NA	NA	NA	NA	<1.0	<1.0 to <12
	02/07/06	NA	NA	NA	NA	NA	NA	<1.0	<1.0 to <12

Note: * Analysis for MTBE by EPA Method 8020; Analysis for 5 oxy's (including MTBE) by EPA Method 8260B; <25 µg/L For TBA.

Table 9: Groundwater Flow Direction and Gradient - 1996 to Present
246 Ghilotti Avenue, Santa Rosa

Well #	Date Measured	Top of Casing Elevation (ft. > msl)	Depth to Groundwater (feet)	Water Level Elevation (ft. > msl)	Groundwater Flow Direction & Gradient (i)
MW-1	06/24/96	99.48	7.42	92.06	S10°W i = 0.005
MW-2		99.77	7.67	92.1	
MW-3		99.38	7.58	91.8	
MW-1	12/20/96	99.48	10.00	89.48	N80°W i = 0.003
MW-2		99.77	10.5	89.27	
MW-3		99.38	10.1	89.28	
MW-1	04/18/97	99.48	7.19	92.29	S10°W i = 0.005
MW-2		99.77	7.41	92.36	
MW-3		99.38	7.34	92.04	
MW-1	09/11/97	99.48	13.29	86.19	S30°W i = 0.006
MW-2		99.77	13.65	86.12	
MW-3		99.38	13.57	85.81	
MW-1	06/19/98	99.48	5.28	94.2	S48°W i = 0.002
MW-2		99.77	5.62	94.15	
MW-3		99.38	5.3	94.08	
MW-1	03/03/99	99.48	3.35	96.13	S10°W i = 0.002
MW-2		99.77	3.57	96.2	
MW-3		99.38	3.33	96.05	
MW-1	06/02/99	99.48	6.79	92.69	Due South i = 0.008
MW-2		99.77	6.91	92.86	
MW-3		99.38	7.04	92.34	
MW-1	12/28/99	99.48	12.73	86.75	S55°W i = 0.003
MW-2		99.77	13.16	86.61	
MW-3		99.38	12.86	86.52	

Table 9: Groundwater Flow Direction and Gradient - 1996 to Present
246 Ghilotti Avenue, Santa Rosa

Well #	Date Measured	Top of Casing Elevation (ft. > msl)	Depth to Groundwater (feet)	Water Level Elevation (ft. > msl)	Groundwater Flow Direction & Gradient (i)
MW-1	03/23/00	99.48	4.85	94.63	N68°W i = 0.03
MW-2		99.77	5.33	94.44	
MW-3		99.38	4.91	94.47	
MW-1	06/20/00	99.48	8.44	91.04	S55°W i = 0.003
MW-2		99.77	8.84	90.93	
MW-3		99.38	8.57	90.81	
MW-1	10/03/00	99.48	13.6	85.88	S35°W i = 0.005
MW-2		99.77	13.98	85.79	
MW-3		99.38	13.87	85.51	
MW-1	01/09/01	99.48	13.31	86.17	N75°W i = 0.002
MW-2		99.77	13.71	86.06	
MW-3		99.38	13.31	86.07	
MW-1	04/10/01	99.48	6.79	92.69	S65°W i = 0.003
MW-2		99.77	7.22	92.55	
MW-3		99.38	6.92	92.46	
MW-1	07/11/01	99.48	11.39	88.09	West i = 0.003
MW-2		99.77	11.87	87.90	
MW-3		99.38	11.50	87.88	
MW-1	10/10/01	99.48	14.78	84.70	S75°W i = 0.004
MW-2		99.77	15.24	84.53	
MW-3		99.38	14.93	84.45	
MW-1	01/09/02	99.48	3.75	95.73	S20°W i = 0.003
MW-2		99.77	4.06	95.71	
MW-3		99.38	3.85	95.53	

Table 9: Groundwater Flow Direction and Gradient - 1996 to Present
246 Ghilotti Avenue, Santa Rosa

Well #	Date Measured	Top of Casing Elevation (ft. > msl)	Depth to Groundwater (feet)	Water Level Elevation (ft. > msl)	Groundwater Flow Direction & Gradient (i)
MW-1	04/05/02	99.48	5.09	94.39	S50°W i = 0.002
MW-2		99.77	5.44	94.33	
MW-3		99.38	5.15	94.23	
MW-1	07/03/02	99.48	9.25	90.23	S75°W i = 0.004
MW-2		99.77	9.74	90.03	
MW-3		99.38	9.44	89.94	
MW-1	10/24/02	99.48	13.70	85.78	S40°W i = 0.005
MW-2		99.77	14.13	85.64	
MW-3		99.38	14.01	85.37	
MW-1	01/22/03	99.48	4.65	94.83	S30°W i = 0.002
MW-2		99.77	4.97	94.80	
MW-3		99.38	4.69	94.69	
MW-1	04/17/03	99.48	5.20	94.28	S45°W i = 0.002
MW-2		99.77	5.55	94.22	
MW-3		99.38	5.25	94.13	
MW-1	07/14/03	99.48	8.44	91.04	S75°W i = 0.003
MW-2		99.77	8.90	90.87	
MW-3		99.38	8.59	90.79	
MW-1	10/07/03	99.48	11.75	87.73	S55°W i = 0.004
MW-2		99.77	12.01	87.76	
MW-3		99.38	12.21	87.17	
MW-1	01/02/04	99.48	6.68	92.80	S80°W i = 0.002
MW-2		99.77	7.08	92.69	
MW-3		99.38	6.72	92.66	
MW-1	04/06/04	99.48	5.21	94.27	S45°W i = 0.002
MW-2		99.77	5.58	94.19	
MW-3		99.38	5.32	94.06	
MW-1	07/07/04	99.48	9.71	89.77	S65°W i = 0.003
MW-2		99.77	10.18	89.59	
MW-3		99.38	9.92	89.46	
MW-1	11/23/04	99.48	11.71	87.77	N60°W i = 0.003
MW-2		99.77	12.17	87.60	
MW-3		99.38	11.73	87.65	
MW-1	02/11/05	99.48	4.90	94.58	SW i = 0.002
MW-2		99.77	5.21	94.56	
MW-3		99.38	4.86	94.52	
MW-04		98.31	3.87	94.44	
MW-05		100.20	5.52	94.68	
MW-06		100.95	6.23	94.72	
MW-07		100.17	5.57	94.60	
MW-08		98.37	3.89	94.48	
MW-09		98.46	4.02	94.44	
MW-10		98.04	3.73	94.31	

Table 9: Groundwater Flow Direction and Gradient - 1996 to Present
246 Ghilotti Avenue, Santa Rosa

Well #	Date Measured	Top of Casing Elevation (ft. > msl)	Depth to Groundwater (feet)	Water Level Elevation (ft. > msl)	Groundwater Flow Direction & Gradient (i)
MW-1	06/13/05	99.48	Inaccessible		West i = 0.005
MW-2		99.77	Inaccessible		
MW-3		99.38	5.23	94.15	
MW-04		98.31	Inaccessible		
MW-05		100.20	5.39	94.81	
MW-06		100.95	6.46	94.49	
MW-07		100.17	5.86	94.31	
MW-08		98.37	4.19	94.18	
MW-09		98.46	4.35	94.11	
MW-10		98.04	4.00	94.04	
MW-1	08/19/05	99.48	8.15	91.33	W to SW i = 0.004 to 0.002
MW-2		99.77	8.52	91.25	
MW-3		99.38	8.26	91.12	
MW-04		98.31	7.15	91.16	
MW-05		100.20	8.74	91.46	
MW-06		100.95	9.36	91.59	
MW-07		100.17	8.59	91.58	
MW-08		98.37	7.40	90.97	
MW-09		98.46	7.53	90.93	
MW-10		98.04	7.09	90.95	
MW-1	11/18/05	99.48	9.42	90.06	Southwesterly i = 0.005
MW-2		99.77	9.95	89.82	
MW-3		99.38	9.67	89.71	
MW-04		98.31	8.63	89.68	
MW-05		100.20	9.88	90.32	
MW-06		100.95	10.54	90.41	
MW-07		100.17	10.21	89.96	
MW-08		98.37	8.82	89.55	
MW-09		98.46	8.97	89.49	
MW-10		98.04	8.52	89.52	
MW-1*	02/07/06 & 03/01/06	99.48	3.71	95.77	Southwesterly i = 0.01
MW-2		99.77	4.11	95.66	
MW-3		99.38	3.84	95.54	
MW-04		98.31	2.89	95.42	
MW-05		100.20	4.48	95.72	
MW-06		100.95	5.28	95.67	
MW-07		100.17	4.51	95.66	
MW-08		98.37	3.65	94.72	
MW-09		98.46	2.84	95.62	
MW-10		98.04	2.56	95.48	
MW-11*		102.62	4.40	98.22	

MW-04 through MW-10 were surveyed to msl on March 9, 2005; MW-11 was surveyed to msl on March 27, 2006.
* = Not used for groundwater flow direction calculation.

Appendices

Appendix A

Unified Soil Classification System Chart and Boring Log Legend
Boring Logs for MW-11 and B-09, B-10, and B-11

GENERAL SOIL CATEGORIES			SYMBOLS GRAPHIC	SYMBOLS LETTER	TYPICAL SOIL TYPES
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	**Gravel** More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures
				GP	Poorly Graded Gravels, Gravel - Sand mixtures
		Gravel with more than 12% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands
				SP	Poorly Graded Sands, Gravelly Sands
		Sand with more than 12% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	**Silt and Clay** Liquid Limit Less than 50%			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity
				CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays
				OL	Organic Silts and Organic Silty Clays of Low Plasticity
	Silt and Clay Liquid Limit Greater than 50%			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts
				CH	Inorganic Clays of High Plasticity, Fat Clays
				OH	Organic Clays of Medium to High Plasticity
Highly Organic Soils				PT	Peat and Other Highly Organic Soils
Bedrock				BR	Bedrock
Aggregate Base				B	Mixed Fill
Asphalt				A	Asphalt
Concrete				C	Concrete

■ Soil sample submitted for chemical analysis

☒ Soil sample examined for soil classification

Sampler Type
- CMSS = CA Modified Split Spoon
- SPT = Standard Penetration Test
- CBS = Continuous Barrel Sampler
- GRAB = Grab Sample
- HA = Hand Auger

▼ Initial Static Water Level

▽ First Identified Free Water

n.a. = not applicable
n.r. = not recorded

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UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND

Ghilotti Construction Company
246 Ghilotti Avenue
Santa Rosa, California 95407
Job Number: 01203312.00

Figure:
Appendix A
A-1
1 of 1

Date (start, end): 2/23/06 - 2/23/06
Drilling Time (start, end) 09:10 - 10:20
Logged By: Stephen Knüttel
Checked By: Stephen Knüttel

Boring No. **B-09**

Boring Location: North of MW-07

See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.
Driller's Name: Pablo Gonzales
Drilling Method: 4-in. Solid-Stem Auger
Sampling Method: SPT
Hammer weight / fall: 140 lbs / 30 inch
Notes:

MW Installed: Y ☐ N ☒ if no, boring backfilled with:
Cement ☐ Bentonite: Cement ☐ Grout ☒ Chips ☐
Auger Depth, ft: 15.0 Total Depth, ft: 15.0
Temp. Screen (interval/dia./slot): 10-15 ft. / 2 in. / 0.01 in.

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								104.0							
								103.7							**ASPHALT**: over base rock.
								103.0							**CLAY with Sand** (CL): dark brown, very fine to fine grained sand, trace fine gravel, moist.
								100.0							**CLAY** (CL): medium gray, minor very fine grained sand, moist, silty.
☒	0	3	SPT		0				5			5	35	60	
☒	6	3													
☒	6	4				No	No					5	35	60	
								95.5							**SANDY CLAY** (CL): medium gray, very fine to fine grained sand, wet.
☒	6	3	SPT		0				10			30	30	40	
☒	6	4										30	30	40	
☒	6	5		▽								30	30	40	
								89.0	15						TOTAL DEPTH = 15.0 FEET

SCS-SANTA ROSA BORING LOG 01203312.00.GPJ SCS-SANTA ROSA.GDT 03/28/06

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BORING LOG B-09

Ghilotti Construction Company
246 Ghilotti Avenue
Santa Rosa, California 95407
Job Number: 01203312.00

Figure: B-09

Date (start, end): 2/23/06 - 2/23/06
Drilling Time (start, end) 10:50 - 11:30
Logged By: Stephen Knüttel
Checked By: Stephen Knüttel

Boring No. **B-10**

Boring Location:

See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.
Driller's Name: Pablo Gonzales
Drilling Method: 4-in. Solid-Stem Auger
Sampling Method: SPT
Hammer weight / fall: 140 lbs / 30 inch
Notes:

MW Installed: Y ☒ N ☐ if no, boring backfilled with:
Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐
Auger Depth, ft: 15.0 Total Depth, ft: 15.0

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								98.0							**CLAYEY SAND with Gravel** (SC): brown, (FILL?).
								97.0							**CLAY with Sand** (CL): dark brown, very fine to fine grained sand, moist.
								94.0							**CLAY** (CL): medium gray, minor very fine grained sand, moist, silty.
☒	6	3	SPT		0				5			5	35	60	
☒	6	4										5	35	60	
☒	6	5										5	35	60	
						No	No								
								89.5							**CLAY with Sand** (CL): gray to brown, very fine grained sand, moist to wet.
☒	6	4	SPT	▽	0				10			15	35	50	
☒	6	6										15	35	50	
☒	6	9										15	35	50	
								83.0	15						TOTAL DEPTH = 15.0 FEET

SCS-SANTA ROSA BORING LOG 01203312.00.GPJ SCS-SANTA ROSA.GDT 03/28/06

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BORING LOG B-10

Ghilotti Construction Company
246 Ghilotti Avenue
Santa Rosa, California 95407
Job Number: 01203312.00

Figure: B-10

Date (start, end): 2/23/06 - 2/23/06
Drilling Time (start, end) 11:50 - 12:30
Logged By: Stephen Knüttel
Checked By: Stephen Knüttel

Boring No. **B-11**

Boring Location: Ghilotti Avenue

See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.
Driller's Name: Pablo Gonzales
Drilling Method: 4-in. Solid-Stem Auger
Sampling Method: SPT
Hammer weight / fall: 140 lbs / 30 inch
Notes:

MW Installed: Y ☒ N ☐ if no, boring backfilled with:
Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐
Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								102.0							**ASPHALT**: over base rock.
								101.6							
								100.5							**CLAY with Sand** (CL): dark brown, very fine to fine grained sand, trace fine gravel, moist.
								98.0							**SILT with Sand** (ML): light brown, very fine to fine grained sand, moist to wet, clayey.
X	6	7	SPT		0	No	No		5			20	50	30	
X	6	13										20	50	30	
X	6	13		▽								20	50	30	
X	6	8	SPT		0				10			20	40	40	Increased clay content.
X	6	8										20	40	40	
X	6	11						90.5				20	40	40	
															TOTAL DEPTH = 11.5 FEET
									15						

SCS-SANTA ROSA BORING LOG 01203312.00.GPJ SCS-SANTA ROSA.GDT 03/28/06

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BORING LOG B-11

Ghilotti Construction Company
246 Ghilotti Avenue
Santa Rosa, California 95407
Job Number: 01203312.00

Figure: B-11

Date (start, end): 2/22/06 - 2/22/06
Drilling Time (start, end) 14:30 - 17:00
Logged By: Stephen Knüttel
Checked By: Stephen Knüttel

Boring No.
MW-11

Boring Location: Field west of Ghilotti Avenue

See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.
Driller's Name: Pablo Gonzales
Drilling Method: 8-in. Hollow-Stem Auger
Sampling Method: CMSS
Hammer weight / fall: 140 lbs / 30 inch
Notes:

MW Installed: Y ☒ N ☐ if no, boring backfilled with:
Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐
Auger Depth, ft: 20.0 Total Depth, ft: 21.5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								102.8							**SANDY CLAY with Gravel** (CL): dark brown, fine to medium grained sand and fine gravel, moist, (FILL?).
								99.3							**CLAY** (CL): dark gray, moist, silty.
☒	0	3	SPT		0				5			T	30	70	
☒	0	4													
☒	6	6													
								94.8							**SANDY CLAY** (CL): brown, very fine grained sand, moist to wet, silty.
						No	No								
☒	6	5	SPT		0				10			30	30	40	
☒	6	8										30	30	40	
☒	6	8										30	30	40	
				▽				90.3							**CLAYEY SAND** (SC): brown, very fine to fine grained sand, wet.
☒	6	5	SPT		0				15			40	30	30	
☒	6	4										40	30	30	
☒	6	4						86.8				40	30	30	**CLAY** (CL): brown, moist to wet.

SCS-SANTA ROSA BORING LOG 01203312.00.GPJ SCS-SANTA ROSA.GDT 03/28/06

SCS ENGINEERS
Environmental Consultants
3645 Westwind Boulevard
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MW-11

Ghilotti Construction Company
246 Ghilotti Avenue
Santa Rosa, California 95407
Job Number: 01203312.00

Figure:
MW-11

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									20						
X	6	3	SPT		0	No	No	82.3					40	60	
X	6	3											40	60	**CLAY with Sand** (CL): brown, very fine grained sand, wet, silty.
X	6	3						81.3				20	30	50	
									25						TOTAL DEPTH = 21.5 FEET
									30						
									35						
									40						

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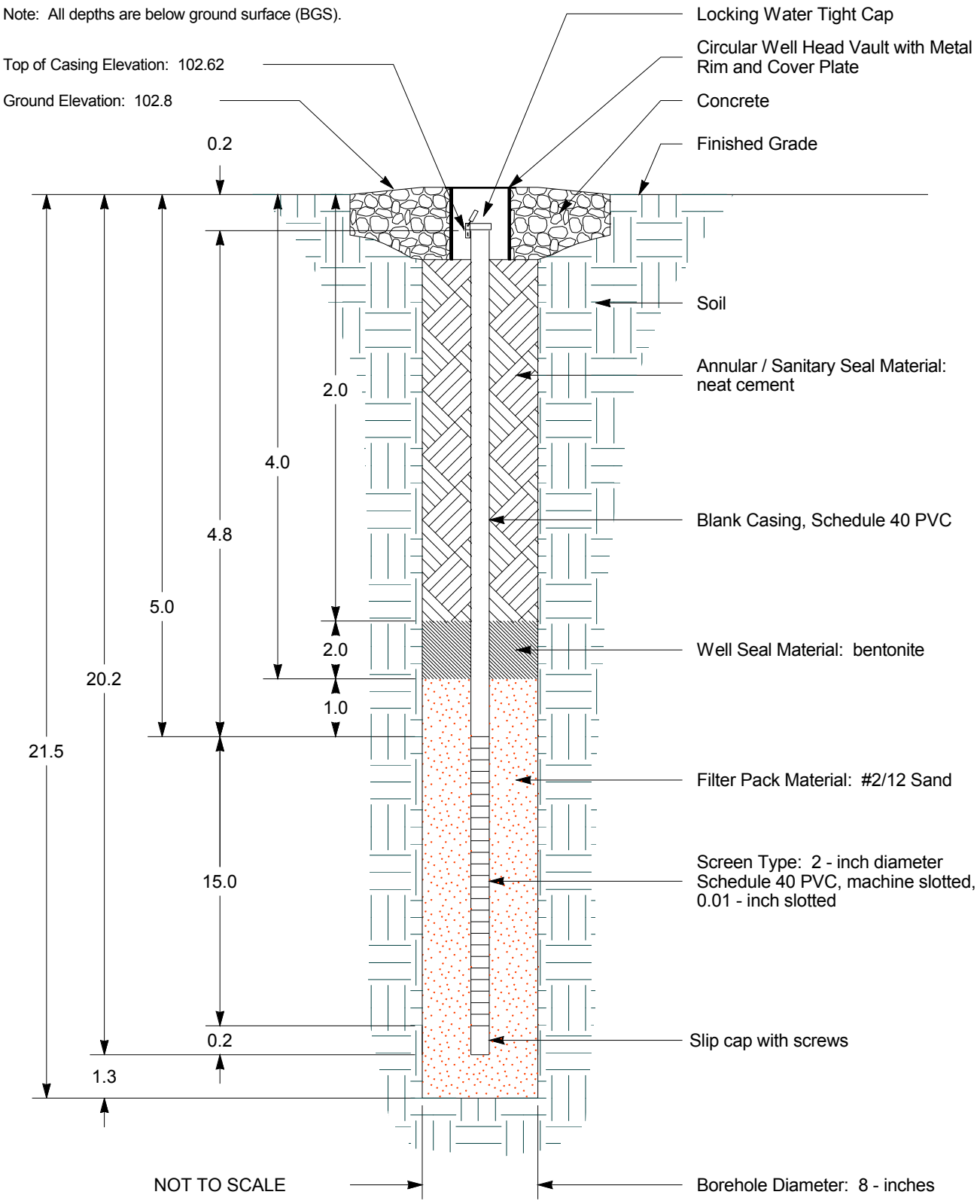
BORING LOG MW-11

Ghilotti Construction Company
246 Ghilotti Avenue
Santa Rosa, California 95407
Job Number: 01203312.00

Figure:
MW-11
2 of 2

Appendix B

Well Completion Diagram for MW-11
DWR 188 form for MW-11



SCS ENGINEERS

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WELL COMPLETION DIAGRAM FOR MW-11

Ghilotti Construction Company
246 Ghilotti Avenue
Santa Rosa, California 95407
Job Number: 01203312.00

Figure:
Appendix B
MW-11

ORIGINAL
File with DWR

Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. **1072885**

Owner's Well No. **MW-11**

Date Work Began **02/22/06** Ended **02/22/06**

Local Permit Agency **County of Sonoma Department of Health Services**

Permit No. **4921HMW** Permit Date **01/20/06**

DWR USE ONLY - DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD **Hollow-Stem Auger** FLUID **n.a.**

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	3.5	**SANDY CLAY with Gravel** (CL): dark brown, fine to medium grained sand and fine gravel, moist.
3.5	8	**CLAY** (CL): dark gray, moist.
8	12.5	**SANDY CLAY** (CL): brown, very fine grained sand, moist to wet.
12.5	16	**CLAYEY SAND** (SC): brown, very fine to fine grained sand, wet.
16	20.5	**CLAY** (CL): brown, moist to wet.
20.5	21.5	**CLAY with Sand** (CL): brown, very fine grained sand, wet.

TOTAL DEPTH OF BORING **21.5** (Feet)
TOTAL DEPTH OF COMPLETED WELL **20.2** (Feet)

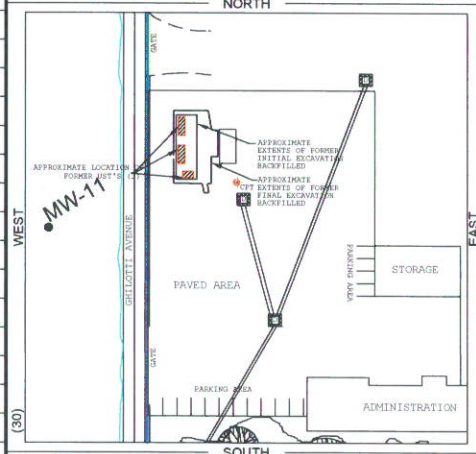
WELL OWNER

Name **Richard Ghilotti**
Mailing Address **246 Ghilotti Avenue**
CITY **Santa Rosa** STATE **CA** ZIP **95407**

WELL LOCATION

Address **246 Ghilotti Avenue**
City **Santa Rosa**
County **Sonoma**
APN Book **134** Page **171** Parcel **050**
Township ___ Range ___ Section ___
Latitude ___ DEG. ___ MIN. ___ SEC. NORTH
Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

✓ NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY
___ Domestic ___ Public
___ Irrigation ___ Industrial
MONITORING ✓
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTOR ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER **13** (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL **n.a.** (Ft.) & DATE MEASURED **n.a.**
ESTIMATED YIELD * **n.a.** (GPM) & TEST TYPE **n.a.**
TEST LENGTH **n.a.** (Hrs.) TOTAL DRAWDOWN **n.a.** (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (inches)
-	-	-					-	-		
0.2	5.0	8	✓				PVC	2	0.25	
5.0	20.0	8		✓			PVC	2	0.25	0.01
20.0	20.2	8	✓				PVC	2	0.25	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	2.0	✓			
2.0	4.0		✓		
4.0	21.5			✓	#2/12 Sand

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **SCS Engineers** (PERSON, FIRM, OR CORPORATION (TYPED OR PRINTED))

3645 Westwind Boulevard ADDRESS **Santa Rosa** CITY **California** STATE **95403** ZIP

Signed S/C (WELL DRILLER/AUTHORIZED REPRESENTATIVE) 29 MAR 06 (DATE SIGNED) **780357** (C-57 LICENSE NUMBER)

DWR 188 REV. 05-03

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Appendix C

Well Development Record for MW-11
Well Purge Records, 1st Quarter 2006

SCS ENGINEERS

WELL DEVELOPMENT RECORD

WELL NUMBER: **MW-11**

PROJECT	JOB NUMBER	SITE	RECORDED BY
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Rick Erdman**

PROJECT LOCATION	AIR TEMPERATURE	WEATHER	SUBCONTRACTOR
246 Ghilotti Avenue Santa Rosa, California	**~50 °**	**Rain**	**None**

METHOD	
HAND PUMP (HP)	
SUBMERSIBLE PUMP (SP)	X
BAILER (B)	X
SURGE BLOCK (SB)	X

DEVELOPMENT CRITERIA

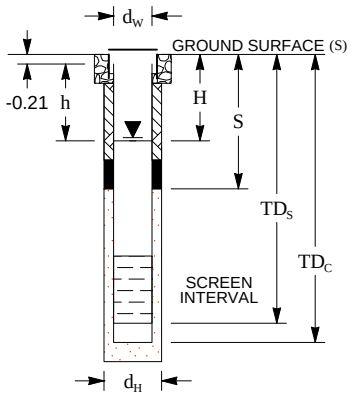
Minimum of 4 well volumes or until discharge is clear and water characteristics have stabilized.

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's).**

HOLE DIAMETER	d_H	=	**8.0**
WELL CASING			
INSIDE DIAM	$d_W ID$	=	**2.0**
OUTSIDE DIAM	$d_W OD$	=	**2.5**
DEPTH TO:			
WATER LEVEL	h	=	**4.45**
BASE OF SEAL	S	=	**4.0**
BASE OF SCREEN	TD_S	=	**20.0**
BASE OF SUMP	TD_C	=	**20.2**
ESTIMATED FILTER PACK POROSITY	P	=	**0.25**

Diameters in (inches) : Depths in (feet)



PURGE VOLUME CALCULATION

CASING VOLUME =

$$V_C = \pi \left(\frac{d_W ID}{2}\right)^2 (TD_C - H) = 3.14\left(\frac{0.17}{2}\right)^2 (20.2 - 4.7)$$

$$= \mathbf{0.34\ ft^3}$$

FILTER PACK PORE VOLUME =

$$V_F = \pi \left[\left(\frac{d_H}{2}\right)^2 - \left(\frac{d_W OD}{2}\right)^2\right] (TD_s - (S \text{ or } H)^*)(P)$$

$$= \mathbf{1.21\ ft^3}$$

TOTAL WELL VOLUME =

$V_T = V_C + V_F =$ **1.55 ft³ x 7.48 gal/ft³ = 11.6 gal**

(* If S > H, use S; If S < H, use H)

DEVELOPMENT LOG					CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	METHOD	WATER REMOVED (GAL)	GAL	WELL VOLUMES	pH	CONDUCTIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPERATURE (°C)	DISSOLVED OXYGEN (ppm)	
03/01/06	**10:05**	**10:25**	**B**	**3**	**3**	**0.26**	**n.r.**	**n.r.**	**n.r.**	**n.r.**	**n.r.**	**Bailed Solids**
03/01/06	**10:25**	**10:45**	**SB**	**0**	**3**	**0.26**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**Surged well**
03/01/06	**10:45**	**11:15**	**SP**	**25**	**28**	**2.42**	**7.38**	**1.62**	***MLE**	**17.9**	**1.32**	
03/01/06	**11:15**	**11:30**	**SB**	**0**	**28**	**2.42**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**Surged well**
03/01/06	**11:30**	**11:45**	**B**	**2**	**30**	**2.59**	**n.r.**	**n.r.**	**n.r.**	**n.r.**	**n.r.**	**Bailed Solids**
03/01/06	**11:45**	**12:15**	**SP**	**25**	**55**	**4.75**	**7.28**	**1.3**	***MLE**	**18.3**	**0.79**	
03/01/06	**12:15**	**12:25**	**SB**	**0**	**55**	**4.75**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**Surged well**
03/01/06	**12:25**	**12:30**	**SP**	**5**	**60**	**5.19**	**7.35**	**1.29**	**451**	**18.3**	**0.69**	
03/01/06	**12:30**	**12:35**	**SP**	**5**	**65**	**5.62**	**7.33**	**1.28**	**179**	**18.3**	**0.58**	
03/01/06	**12:35**	**12:40**	**SP**	**5**	**70**	**6.05**	**7.32**	**1.28**	**111**	**18.2**	**0.63**	
03/01/06	**12:40**	**12:45**	**SP**	**5**	**75**	**6.48**	**7.32**	**1.27**	**77**	**18.2**	**0.49**	

Report Form: WELL DEVELOPMENT 2 Project ID: 01203312.00.GPJ Date: 3/31/2006

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER **MW-11**

PROJECT	*JOB NUMBER*	*SITE*	*RECORDED BY*
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Rick Erdman**

	PURGING METHOD	*SAMPLING METHOD*
HAND PUMP		
SUBMERSIBLE PUMP	x	
BAILER		x
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's)**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 4.40

NAPL: n.a.*

NAPL THICKNESS: n.a.*

SCREEN DEPTH:

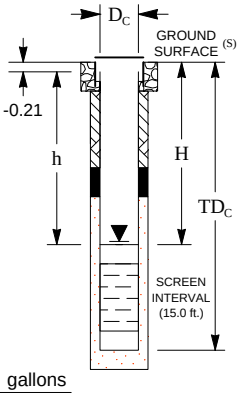
TOP: 5.0

BOTTOM: 20.0

TOTAL DEPTH (TD_C): 20.20

Diameters in (inches) : Depths in (feet)

ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.54 gallons



DATE OF SAMPLING: 3/1/2006

WEATHER:

TAGGED WATER LEVELS FROM TOC: 4.40 / 4.40

TAGGED WELL DEPTH FROM TOC: 20.7

PURGE VOLUME (3 CASING VOLUMES): 7.6 gallons

DEPTH TO WATER FOR 80% RECHARGE: 7.52 ft. below TOC

TIME OF SAMPLING: 15:55

DEPTH TO WATER AT TIME OF SAMPLING: 5.11 ft. below TOC

APPEARANCE OF SAMPLE: Slightly cloudy

LABORATORY: Alpha Analytical Laboratory, Inc.

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUCTIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPERATURE (°C)	DISSOLVED OXYGEN (ppm)	
3/1/06	**15:36**	**15:39**	**3**	**3**	**1.18**	**7.41**	**1.260**	***MLE**	**17.3**	**0.63**	
3/1/06	**15:39**	**15:41**	**2.5**	**5.5**	**2.16**	**7.32**	**1.260**	**571**	**17.9**	**0.44**	
3/1/06	**15:41**	**15:43**	**2.2**	**7.7**	**3.03**	**7.31**	**1.260**	**140**	**18.0**	**0.46**	

Report Form: WELL PURGE RECORD 2 Project ID: 01203312.00.GPJ Date: 3/31/2006

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER **MW- 1**

PROJECT	*JOB NUMBER*	*SITE*	*RECORDED BY*
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Rick Erdman**

	PURGING METHOD	*SAMPLING METHOD*
HAND PUMP		
SUBMERSIBLE PUMP	X	
BAILER		X
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs.**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 3.71

NAPL: n.a.*

NAPL THICKNESS: n.a.*

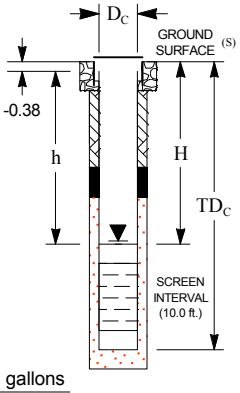
SCREEN DEPTH:

TOP: 9.0

BOTTOM: 19.0

TOTAL DEPTH (TD_C): 19.00

Diameters in (inches) : Depths in (feet)



ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.43 gallons

DATE OF SAMPLING:	3/1/2006
WEATHER:	Cloudy
TAGGED WATER LEVELS FROM TOC:	3.71 / 3.71
TAGGED WELL DEPTH FROM TOC:	17.53
PURGE VOLUME (3 CASING VOLUMES):	7.3 gallons
DEPTH TO WATER FOR 80% RECHARGE:	6.69 ft. below TOC
TIME OF SAMPLING:	14:10
DEPTH TO WATER AT TIME OF SAMPLING:	4.35 ft. below TOC
APPEARANCE OF SAMPLE:	Very cloudy
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUC-TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER-ATURE (°C)	DISSOLVED OXYGEN (ppm)	
3/1/06	**13:48**	**13:50**	**2**	**2**	**0.82**	**7.06**	**1.110**	**67**	**19.0**	**0.43**	
3/1/06	**13:50**	**13:53**	**3**	**5**	**2.05**	**7.06**	**1.110**	**35**	**19.2**	**0.51**	
3/1/06	**13:53**	**13:55**	**2**	**7**	**2.88**	**7.05**	**1.100**	**21**	**19.3**	**0.59**	

Report Form: WELL PURGE RECORD 2 Project ID: 01203312.00.GPJ Date: 3/15/2006

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER **MW- 2**

PROJECT	*JOB NUMBER*	*SITE*	*RECORDED BY*
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Jose Carrillo**

	PURGING METHOD	*SAMPLING METHOD*
HAND PUMP		
SUBMERSIBLE PUMP	X	
BAILER		X
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs.**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 4.11

NAPL: n.a.*

NAPL THICKNESS: n.a.*

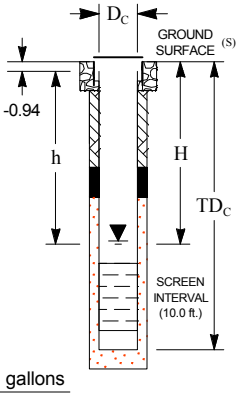
SCREEN DEPTH:

TOP: 7.0

BOTTOM: 17.0

TOTAL DEPTH (TD_C): 17.00

Diameters in (inches) : Depths in (feet)



ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 1.95 gallons

DATE OF SAMPLING:	2/7/2006
WEATHER:	Clear
TAGGED WATER LEVELS FROM TOC:	4.11 / 4.11
TAGGED WELL DEPTH FROM TOC:	16.2
PURGE VOLUME (3 CASING VOLUMES):	5.9 gallons
DEPTH TO WATER FOR 80% RECHARGE:	6.50 ft. below TOC
TIME OF SAMPLING:	15:50
DEPTH TO WATER AT TIME OF SAMPLING:	5.11 ft. below TOC
APPEARANCE OF SAMPLE:	Clear
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUC-TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER-ATURE (°C)	DISSOLVED OXYGEN (ppm)	
2/7/06	**15:25**	**15:28**	**2**	**2**	**1.03**	**4.61**	**1.500**	**526**	**17.3**	**1.02**	
2/7/06	**15:28**	**15:31**	**2**	**4**	**2.05**	**4.63**	**1.480**	**434**	**17.6**	**0.92**	
2/7/06	**15:31**	**15:34**	**2**	**6**	**3.08**	**4.70**	**1.490**	**543**	**17.8**	**0.66**	

Report Form: WELL PURGE RECORD 2 Project ID: 01203312.00.GPJ Date: 3/15/2006

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER **MW- 3**

PROJECT	*JOB NUMBER*	*SITE*	*RECORDED BY*
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Jose Carrillo**

	PURGING METHOD	*SAMPLING METHOD*
HAND PUMP		
SUBMERSIBLE PUMP	X	
BAILER		X
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs.**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 3.84

NAPL: n.a.*

NAPL THICKNESS: n.a.*

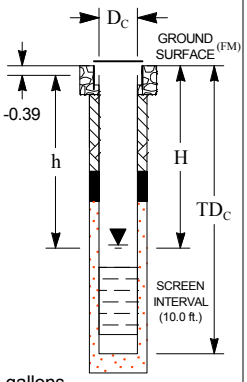
SCREEN DEPTH:

TOP: 9.0

BOTTOM: 19.0

TOTAL DEPTH (TD_C): 19.00

Diameters in (inches) : Depths in (feet)



ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.41 gallons

DATE OF SAMPLING:	2/7/2006
WEATHER:	Clear
TAGGED WATER LEVELS FROM TOC:	3.84 / 3.84
TAGGED WELL DEPTH FROM TOC:	17.81
PURGE VOLUME (3 CASING VOLUMES):	7.2 gallons
DEPTH TO WATER FOR 80% RECHARGE:	6.79 ft. below TOC
TIME OF SAMPLING:	12:05
DEPTH TO WATER AT TIME OF SAMPLING:	7.18 ft. below TOC
APPEARANCE OF SAMPLE:	Clear
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUCTIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPERATURE (°C)	DISSOLVED OXYGEN (ppm)	
2/7/06	**11:30**	**11:33**	**2**	**2**	**0.83**	**6.93**	**1.240**	**423**	**17.3**	**1.90**	
2/7/06	**11:33**	**11:36**	**2**	**4**	**1.66**	**6.80**	**0.964**	**346**	**17.2**	**0.96**	
2/7/06	**11:36**	**11:40**	**2**	**6**	**2.49**	**6.71**	**0.970**	**302**	**17.7**	**0.68**	
2/7/06	**11:40**	**11:43**	**1**	**7**	**2.90**	**6.52**	**0.963**	**236**	**18.1**	**0.50**	

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SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER	MW-04
PROJECT	Ghilotti Construction Company
JOB NUMBER	01203312.00
SITE	246 Ghilotti Avenue
RECORDED BY	Jose Carrillo

	PURGING METHOD	SAMPLING METHOD
HAND PUMP		
SUBMERSIBLE PUMP	x	
BAILER		x
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's)**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 2.89

NAPL: n.a.*

NAPL THICKNESS: n.a.*

SCREEN DEPTH:

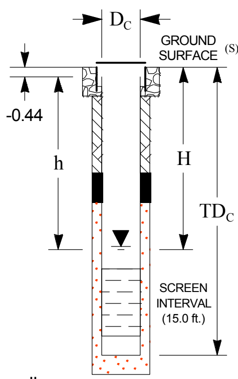
TOP: 5.1

BOTTOM: 20.1

TOTAL DEPTH (TD_C): 20.10

Diameters in (inches) : Depths in (feet)

ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 \text{ gal/ft}^3]$: 2.74 gallons



DATE OF SAMPLING:	2/7/2006
WEATHER:	Clear
TAGGED WATER LEVELS FROM TOC:	2.89 / 2.89
TAGGED WELL DEPTH FROM TOC:	19.11
PURGE VOLUME (3 CASING VOLUMES):	8.2 gallons
DEPTH TO WATER FOR 80% RECHARGE:	6.24 ft. below TOC
TIME OF SAMPLING:	14:35
DEPTH TO WATER AT TIME OF SAMPLING:	5.59 ft. below TOC
APPEARANCE OF SAMPLE:	Very cloudy
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUCTIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPERATURE (°C)	DISSOLVED OXYGEN (ppm)	
2/7/06	14:05	14:08	2	2	0.73	5.22	1.310	*MLE	18.2	0.96	
2/7/06	14:08	14:12	2	4	1.46	5.12	1.240	*MLE	19.5	0.81	
2/7/06	14:12	14:16	2	6	2.19	5.03	1.240	*MLE	19.7	0.70	
2/7/06	14:16	14:20	2	8	2.92	4.97	1.230	752	19.9	0.61	

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER **MW-05**

PROJECT	*JOB NUMBER*	*SITE*	*RECORDED BY*
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Rick Erdman**

	PURGING METHOD	*SAMPLING METHOD*
HAND PUMP		
SUBMERSIBLE PUMP	X	
BAILER		X
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's)**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 4.48

NAPL: n.a.*

NAPL THICKNESS: n.a.*

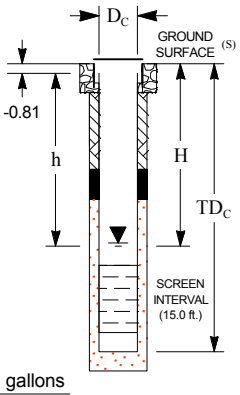
SCREEN DEPTH:

TOP: 5.2

BOTTOM: 20.2

TOTAL DEPTH (TD_C): 20.20

Diameters in (inches) : Depths in (feet)



ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.43 gallons

DATE OF SAMPLING:	3/1/2006
WEATHER:	Cloudy
TAGGED WATER LEVELS FROM TOC:	4.48 / 4.48
TAGGED WELL DEPTH FROM TOC:	19.17
PURGE VOLUME (3 CASING VOLUMES):	7.3 gallons
DEPTH TO WATER FOR 80% RECHARGE:	7.46 ft. below TOC
TIME OF SAMPLING:	15:00
DEPTH TO WATER AT TIME OF SAMPLING:	4.59 ft. below TOC
APPEARANCE OF SAMPLE:	Slightly cloudy
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUC-TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER-ATURE (°C)	DISSOLVED OXYGEN (ppm)	
3/1/06	**14:42**	**14:44**	**2**	**2**	**0.82**	**7.07**	**0.627**	***MLE**	**17.9**	**0.39**	
3/1/06	**14:44**	**14:47**	**3**	**5**	**2.05**	**6.89**	**0.627**	**528**	**18.3**	**0.24**	
3/1/06	**14:47**	**14:49**	**2.2**	**7.2**	**2.96**	**6.87**	**0.630**	**160**	**18.4**	**0.21**	

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SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER: **MW-06**

PROJECT	JOB NUMBER	SITE	RECORDED BY
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Jose Carrillo**

	PURGING METHOD	SAMPLING METHOD
HAND PUMP		
SUBMERSIBLE PUMP	X	
BAILER		X
OTHER		

PURGING CRITERIA: **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's).**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 5.28

NAPL: n.a.*

NAPL THICKNESS: n.a.*

SCREEN DEPTH:

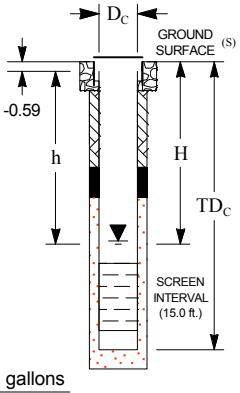
TOP: 5.3

BOTTOM: 20.3

TOTAL DEPTH (TD_C): 20.30

Diameters in (inches) : Depths in (feet)

ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.35 gallons



DATE OF SAMPLING:	2/7/2006
WEATHER:	Clear
TAGGED WATER LEVELS FROM TOC:	5.28 / 5.28
TAGGED WELL DEPTH FROM TOC:	19.75
PURGE VOLUME (3 CASING VOLUMES):	7.1 gallons
DEPTH TO WATER FOR 80% RECHARGE:	8.17 ft. below TOC
TIME OF SAMPLING:	16:40
DEPTH TO WATER AT TIME OF SAMPLING:	8.01 ft. below TOC
APPEARANCE OF SAMPLE:	Very cloudy
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUCTIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPERATURE (°C)	DISSOLVED OXYGEN (ppm)	
2/7/06	**16:10**	**16:14**	**2**	**2**	**0.85**	**4.71**	**1.000**	***MLE**	**18.9**	**1.23**	
2/7/06	**16:14**	**16:16**	**2**	**4**	**1.70**	**7.69**	**1.050**	***MLE**	**18.6**	**0.69**	
2/7/06	**16:16**	**16:20**	**2**	**6**	**2.55**	**4.68**	**1.030**	***MLE**	**18.6**	**0.76**	
2/7/06	**16:20**	**16:23**	**1**	**7**	**2.97**	**4.67**	**1.040**	***MLE**	**18.7**	**0.67**	

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SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER **MW-07**

PROJECT	*JOB NUMBER*	*SITE*	*RECORDED BY*
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Jose Carrillo**

	PURGING METHOD	*SAMPLING METHOD*
HAND PUMP		
SUBMERSIBLE PUMP	X	
BAILER		X
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's).**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 4.51

NAPL: n.a.*

NAPL THICKNESS: n.a.*

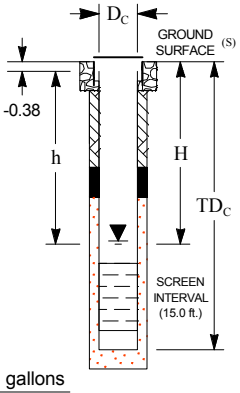
SCREEN DEPTH:

TOP: 5.4

BOTTOM: 20.4

TOTAL DEPTH (TD_C): 20.40

Diameters in (inches) : Depths in (feet)



ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.53 gallons

DATE OF SAMPLING:	2/7/2006
WEATHER:	Clear
TAGGED WATER LEVELS FROM TOC:	4.51 / 4.51
TAGGED WELL DEPTH FROM TOC:	20
PURGE VOLUME (3 CASING VOLUMES):	7.6 gallons
DEPTH TO WATER FOR 80% RECHARGE:	7.61 ft. below TOC
TIME OF SAMPLING:	15:01
DEPTH TO WATER AT TIME OF SAMPLING:	7.59 ft. below TOC
APPEARANCE OF SAMPLE:	Very cloudy
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUC-TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER-ATURE (°C)	DISSOLVED OXYGEN (ppm)	
2/7/06	**14:45**	**14:48**	**2**	**2**	**0.79**	**4.61**	**1.640**	***MLE**	**18.5**	**0.98**	
2/7/06	**14:48**	**14:51**	**2**	**4**	**1.58**	**4.56**	**4.620**	***MLE**	**19.2**	**0.77**	
2/7/06	**14:51**	**14:53**	**2**	**6**	**2.37**	**4.58**	**1.620**	***MLE**	**19.4**	**0.92**	
2/7/06	**14:53**	**14:57**	**2**	**8**	**3.16**	**4.59**	**1.610**	***MLE**	**19.5**	**0.82**	

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WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER: MW-08

PROJECT	JOB NUMBER	SITE	RECORDED BY
Ghilotti Construction Company	01203312.00	246 Ghilotti Avenue	Jose Carrillo

	PURGING METHOD	SAMPLING METHOD
HAND PUMP		
SUBMERSIBLE PUMP	X	
BAILER		X
OTHER		

PURGING CRITERIA: **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's).**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 3.65

NAPL: n.a.*

NAPL THICKNESS: n.a.*

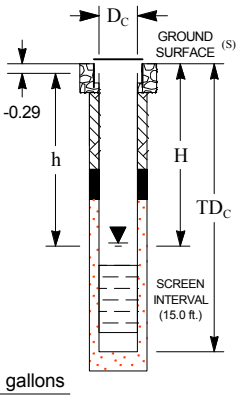
SCREEN DEPTH:

TOP: 5.3

BOTTOM: 20.3

TOTAL DEPTH (TD_C): 20.30

Diameters in (inches) : Depths in (feet)



ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.67 gallons

DATE OF SAMPLING:	2/7/2006
WEATHER:	Clear
TAGGED WATER LEVELS FROM TOC:	3.65 / 3.65
TAGGED WELL DEPTH FROM TOC:	20
PURGE VOLUME (3 CASING VOLUMES):	8.0 gallons
DEPTH TO WATER FOR 80% RECHARGE:	6.92 ft. below TOC
TIME OF SAMPLING:	12:47
DEPTH TO WATER AT TIME OF SAMPLING:	6.89 ft. below TOC
APPEARANCE OF SAMPLE:	Cloudy
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUCTIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPERATURE (°C)	DISSOLVED OXYGEN (ppm)	
2/7/06	**12:15**	**12:18**	**2**	**2**	**0.75**	**4.96**	**1.680**	***MLE**	**18.0**	**1.36**	
2/7/06	**12:18**	**12:21**	**2**	**4**	**1.50**	**5.04**	**1.680**	***MLE**	**18.3**	**0.65**	
2/7/06	**12:21**	**12:24**	**2**	**6**	**2.25**	**4.87**	**1.710**	***MLE**	**18.7**	**1.16**	
2/7/06	**12:24**	**12:27**	**2**	**8**	**3.00**	**4.88**	**1.700**	***MLE**	**18.9**	**1.04**	

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WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER **MW-09**

PROJECT	*JOB NUMBER*	*SITE*	*RECORDED BY*
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Jose Carrillo**

	PURGING METHOD	*SAMPLING METHOD*
HAND PUMP		
SUBMERSIBLE PUMP	X	
BAILER		X
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's).**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 2.84

NAPL: n.a.*

NAPL THICKNESS: n.a.*

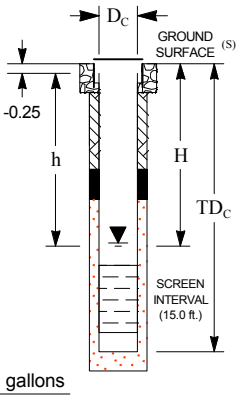
SCREEN DEPTH:

TOP: 5.3

BOTTOM: 20.3

TOTAL DEPTH (TD_C): 20.30

Diameters in (inches) : Depths in (feet)



ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.81 gallons

DATE OF SAMPLING:	2/7/2006
WEATHER:	Clear
TAGGED WATER LEVELS FROM TOC:	2.84 / 2.84
TAGGED WELL DEPTH FROM TOC:	19.96
PURGE VOLUME (3 CASING VOLUMES):	8.4 gallons
DEPTH TO WATER FOR 80% RECHARGE:	6.28 ft. below TOC
TIME OF SAMPLING:	13:10
DEPTH TO WATER AT TIME OF SAMPLING:	6.43 ft. below TOC
APPEARANCE OF SAMPLE:	Slightly cloudy
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUC-TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER-ATURE (°C)	DISSOLVED OXYGEN (ppm)	
2/7/06	**13:05**	**13:06**	**3**	**3**	**1.07**	**5.30**	**1.150**	***MLE**	**18.0**	**0.44**	
2/7/06	**13:06**	**13:10**	**3**	**6**	**2.14**	**4.76**	**0.685**	***MLE**	**18.2**	**1.01**	
2/7/06	**13:10**	**13:14**	**3**	**9**	**3.20**	**4.74**	**0.695**	***MLE**	**18.3**	**1.57**	

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER **MW-10**

PROJECT	*JOB NUMBER*	*SITE*	*RECORDED BY*
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Jose Carrillo**

	PURGING METHOD	*SAMPLING METHOD*
HAND PUMP		
SUBMERSIBLE PUMP	X	
BAILER		X
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's).**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 2.56

NAPL: n.a.*

NAPL THICKNESS: n.a.*

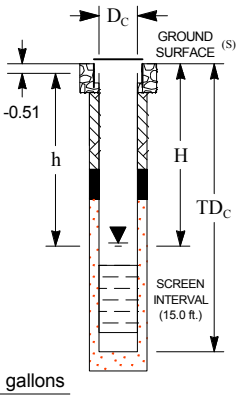
SCREEN DEPTH:

TOP: 5.5

BOTTOM: 20.5

TOTAL DEPTH (TD_C): 20.50

Diameters in (inches) : Depths in (feet)



ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.84 gallons

DATE OF SAMPLING:	2/7/2006
WEATHER:	Clear
TAGGED WATER LEVELS FROM TOC:	2.56 / 2.56
TAGGED WELL DEPTH FROM TOC:	20.03
PURGE VOLUME (3 CASING VOLUMES):	8.5 gallons
DEPTH TO WATER FOR 80% RECHARGE:	6.05 ft. below TOC
TIME OF SAMPLING:	13:50
DEPTH TO WATER AT TIME OF SAMPLING:	6.88 ft. below TOC
APPEARANCE OF SAMPLE:	Cloudy
LABORATORY:	Analytical Sciences

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUC-TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER-ATURE (°C)	DISSOLVED OXYGEN (ppm)	
2/7/06	**13:25**	**13:28**	**3**	**3**	**1.05**	**5.25**	**1.310**	***MLE**	**16.7**	**0.71**	
2/7/06	**13:28**	**13:31**	**3**	**6**	**2.11**	**5.44**	**1.320**	**702**	**16.8**	**0.73**	
2/7/06	**13:31**	**13:35**	**3**	**9**	**3.16**	**5.50**	**1.310**	**781**	**17.0**	**0.89**	

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SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER **MW-11**

PROJECT	*JOB NUMBER*	*SITE*	*RECORDED BY*
Ghilotti Construction Company	**01203312.00**	**246 Ghilotti Avenue**	**Rick Erdman**

	PURGING METHOD	*SAMPLING METHOD*
HAND PUMP		
SUBMERSIBLE PUMP	x	
BAILER		x
OTHER		

PURGING CRITERIA **Minimum of 3 wetted casing volumes (or 5 gallons minimum for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.**

REMARKS

*** Oil/water interface probe used to check for NAPLs; MLE = Meter Limit Exceeded, i.e. >999 NTU's)**

CASING DIAMETER (D_C): 2.0

DEPTH TO:

WATER (h): 4.40

NAPL: n.a.*

NAPL THICKNESS: n.a.*

SCREEN DEPTH:

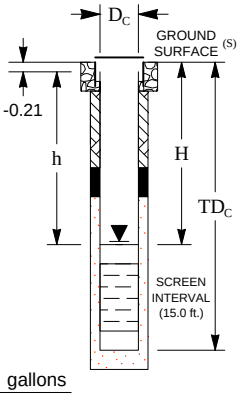
TOP: 5.0

BOTTOM: 20.0

TOTAL DEPTH (TD_C): 20.20

Diameters in (inches) : Depths in (feet)

ONE CASING VOLUME:
$[TD_C - H] [3.14 (D_C / 2)^2] [7.48 gal/ft^3]$: 2.54 gallons



DATE OF SAMPLING: 3/1/2006

WEATHER:

TAGGED WATER LEVELS FROM TOC: 4.40 / 4.40

TAGGED WELL DEPTH FROM TOC: 20.7

PURGE VOLUME (3 CASING VOLUMES): 7.6 gallons

DEPTH TO WATER FOR 80% RECHARGE: 7.52 ft. below TOC

TIME OF SAMPLING: 15:55

DEPTH TO WATER AT TIME OF SAMPLING: 5.11 ft. below TOC

APPEARANCE OF SAMPLE: Slightly cloudy

LABORATORY: Alpha Analytical Laboratory, Inc.

SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.

PURGING DATA				CUMULATIVE TOTAL REMOVED		WATER CHARACTERISTICS					COMMENTS
DATE	TIME BEGIN	TIME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pH	CONDUCTIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPERATURE (°C)	DISSOLVED OXYGEN (ppm)	
3/1/06	**15:36**	**15:39**	**3**	**3**	**1.18**	**7.41**	**1.260**	***MLE**	**17.3**	**0.63**	
3/1/06	**15:39**	**15:41**	**2.5**	**5.5**	**2.16**	**7.32**	**1.260**	**571**	**17.9**	**0.44**	
3/1/06	**15:41**	**15:43**	**2.2**	**7.7**	**3.03**	**7.31**	**1.260**	**140**	**18.0**	**0.46**	

Report Form: WELL PURGE RECORD 2 Project ID: 01203312.00.GPJ Date: 3/31/2006

Appendix D

Well Survey Report, dated March 28, 2006

MONITORING WELL ELEVATIONS & LOCATIONS

TO: SCS Engineers
3645 Westwind Blvd.
Santa Rosa, California 95403

RE: Ghilotti Construction
246 Ghilotti Ave.
Santa Rosa, Ca. 95407

DATE: 3-28-06
Rev.

Job # 05-1033-S
Your Job No. 3312.00

On 3-27-05 this office continued a closed level loop with a Zeiss Ni2 Auto level based on BM Z-1396, a benchmark disk at the intersection of HWY 12 & Dutton Ave., elev. 152.30, NAVD 88, to a temporary benchmark at the project site. Subsequent level loops on 3-27-06 yielded the following monitoring well elevations. On that same date, employing a Leica GS 20, the following Latitude and Longitude were derived for the monitoring well.

MW#	Casing	Rim	Ground	Latitude	Longitude	Pos.Qlty/ft	Comments
MW-11	102.62	102.83	102.73	38.3857663	-122.7231640	1.31	(N)slot type

KEY (A) = Allen head bolt (L) = Large bolt (S) = Small bolt (N)(E)(S)(W) = Direction (B) = Black mark
(BN)=Black mark/notch (M)=Missing/stripped bolt (OC) = Outer casing (HP) = High point (P)= Pressure

REMARKS: Elevation tie to BM Z-1396 would lower all elevations on site 0.13 feet. Due to distance to benchmark (3-4 miles) Vertcon shifted values of previous work held as good. All wells recovered and observed were in good condition and were resealed as found.

TBM Established: A RR spike in utility pole near NW corner of parcel elev.102.53 NAVD 88

Steven H. Jacobs PLS 5296 Lic. Exp. 12-31-07

STATE OF CALIFORNIA LICENSED LAND SURVEYOR STEVEN H. JACOBS 5296

JACOBS LAND SURVEYING 1625 PERSEUS CT. PETALUMA CA. 94952 (707)782-0733

Appendix E

Analytical Sciences Report #6020914, dated February 23, 2006
Analytical Sciences Report #6022407, dated March 10, 2006
Analytical Sciences Report #6030213, dated March 15, 2006

Analytical Sciences

February 23, 2006

Kevin Coker
SCS Engineers
3645 Westwind Blvd
Santa Rosa, CA 95403

Dear Kevin,

Enclosed you will find Analytical Sciences' final report 6020914 for your Ghilotti Construction project. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

Mark A. Valentini, Ph.D.

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

Analytical Sciences

Report Date: February 23, 2006

Laboratory Report

Kevin Coker
SCS Engineers
3645 Westwind Blvd
Santa Rosa, CA 95403

Project Name: **Ghilotti Construction** **01203312.00**

Lab Project: **6020914**

This 8 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

Oxygenated Gasoline Additives in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6020914-01	**MW-07**	Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	1.7	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	19.7	98	70-130
Toluene-d8	20.0	100	70-130
4-Bromofluorobenzene	20.4	102	70-130

Date Sampled:	02/07/06	Date Analyzed:	02/10/06	QC Batch:	B000615
Date Received:	02/09/06	Method:	EPA 8260B		

Oxygenated Gasoline Additives in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6020914-02	**MW-2**	Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	7.8	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	19.8	99	70-130
Toluene-d8	20.2	101	70-130
4-Bromofluorobenzene	20.6	103	70-130

Date Sampled:	02/07/06	Date Analyzed:	02/10/06	QC Batch:	B000615
Date Received:	02/09/06	Method:	EPA 8260B		

Oxygenated Gasoline Additives in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6020914-03	**MW-3**	Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	24	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	19.9	100	70-130
Toluene-d8	20.1	100	70-130
4-Bromofluorobenzene	20.3	102	70-130

Date Sampled:	02/07/06	Date Analyzed:	02/11/06	QC Batch: B000615
Date Received:	02/09/06	Method:	EPA 8260B	

Oxygenated Gasoline Additives in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6020914-04	**MW-04**	Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	1.0	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	19.5	98	70-130
Toluene-d8	20.2	101	70-130
4-Bromofluorobenzene	20.4	102	70-130

Date Sampled:	02/07/06	Date Analyzed:	02/10/06	QC Batch: B000615
Date Received:	02/09/06	Method:	EPA 8260B	

Oxygenated Gasoline Additives in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6020914-05	**MW-06**	Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	19.6	98	70-130
Toluene-d8	19.9	100	70-130
4-Bromofluorobenzene	21.2	106	70-130

Date Sampled:	02/07/06	Date Analyzed:	02/10/06	QC Batch: B000615
Date Received:	02/09/06	Method:	EPA 8260B	

Oxygenated Gasoline Additives in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6020914-06	**MW-08**	Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	19.9	100	70-130
Toluene-d8	20.2	101	70-130
4-Bromofluorobenzene	20.5	102	70-130

Date Sampled:	02/07/06	Date Analyzed:	02/10/06	QC Batch: B000615
Date Received:	02/09/06	Method:	EPA 8260B	

Oxygenated Gasoline Additives in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6020914-07	**MW-09**	Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	3.4	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	19.7	98	70-130
Toluene-d8	20.1	100	70-130
4-Bromofluorobenzene	20.4	102	70-130

Date Sampled:	02/07/06	Date Analyzed:	02/10/06	QC Batch: B000615
Date Received:	02/09/06	Method:	EPA 8260B	

Oxygenated Gasoline Additives in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6020914-08	**MW-10**	Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	28	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	19.9	100	70-130
Toluene-d8	20.2	101	70-130
4-Bromofluorobenzene	20.6	103	70-130

Date Sampled:	02/07/06	Date Analyzed:	02/10/06	QC Batch: B000615
Date Received:	02/09/06	Method:	EPA 8260B	

Oxygenated Gasoline Additives in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6020914-09	**DW-246**	Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	19.6	98	70-130
Toluene-d8	20.0	100	70-130
4-Bromofluorobenzene	20.8	104	70-130

Date Sampled:	02/07/06	Date Analyzed:	02/10/06	QC Batch: B000615
Date Received:	02/09/06	Method:	EPA 8260B	

Quality Assurance Report

Oxygenated Gasoline Additives in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000615 - EPA 5030 GC/MS										
Blank (B000615-BLK1)				Prepared & Analyzed: 02/10/06						
Tertiary Butyl Alcohol (TBA)	ND	12	ug/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	ug/L							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/L							
Surrogate: Dibromofluoromethane	*18.7*		*ug/L*	*20.0*		*94*	*70-130*			
Surrogate: Toluene-d8	*19.1*		*ug/L*	*20.0*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/L*	*20.0*		*122*	*70-130*			
Matrix Spike (B000615-MS1)		**Source: 6020914-05**		Prepared & Analyzed: 02/10/06						
1,1-Dichloroethene (1,1-DCE)	23.4	1.0	ug/L	25.0	ND	94	70-130			
Benzene	24.6	1.0	ug/L	25.0	ND	98	70-130			
Trichloroethene (TCE)	23.9	1.0	ug/L	25.0	ND	96	70-130			
Toluene	24.0	1.0	ug/L	25.0	ND	96	70-130			
Chlorobenzene	24.3	1.0	ug/L	25.0	ND	97	70-130			
Surrogate: Dibromofluoromethane	*19.3*		*ug/L*	*20.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*19.9*		*ug/L*	*20.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*21.1*		*ug/L*	*20.0*		*106*	*70-130*			
Matrix Spike Dup (B000615-MSD1)		**Source: 6020914-05**		Prepared & Analyzed: 02/10/06						
1,1-Dichloroethene (1,1-DCE)	21.3	1.0	ug/L	25.0	ND	85	70-130	10	20	
Benzene	22.6	1.0	ug/L	25.0	ND	90	70-130	9	20	
Trichloroethene (TCE)	21.6	1.0	ug/L	25.0	ND	86	70-130	11	20	
Toluene	22.2	1.0	ug/L	25.0	ND	89	70-130	8	20	
Chlorobenzene	22.1	1.0	ug/L	25.0	ND	88	70-130	10	20	
Surrogate: Dibromofluoromethane	*19.4*		*ug/L*	*20.0*		*97*	*70-130*			
Surrogate: Toluene-d8	*20.0*		*ug/L*	*20.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*21.0*		*ug/L*	*20.0*		*105*	*70-130*			

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 6020914
SCS ENGINEERS PROJECT NAME: Ghilotti Construction
SCS ENGINEERS PROJECT NUMBER: 01203312.00

CLIENT INFORMATION		BILLING INFORMATION	
COMPANY NAME:	SCS ENGINEERS	CONTACT:	Stacey
ADDRESS:	3645 WESTWIND BOULEVARD	COMPANY NAME:	Ghilotti Construction
	SANTA ROSA, CA 95403	ADDRESS:	246 Ghilotti Ave
CONTACT:	Kevin Coker		Santa Rosa, CA 95407
PHONE#:	(707) 546-9461	PHONE#:	707-585-1221
FAX #:	(707) 544-5769	FAX #:	

TURNAROUND TIME (check one)

MOBILE LAB			
SAME DAY		24 HOURS	
48 HOURS		72 HOURS	
5 DAYS		NORMAL	✔

GEOTRACKER EDF: X Y ___N
GLOBAL ID: T0609700354

COOLER TEMPERATURE
_____ °C

COC

PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GAS/BTEX EPA 8015M/8020	TPH DIESEL / MOTOR OIL EPA 8015M	VOLATILE HYDROCARBONS EPA 8260 (FULL LIST)	EPA 8260 Full List + Oxy / Fuel Additives	BTEX & OXYGENATES + PB SCAVENGERS EPA 8260B	OXYGENATED FUEL ADDITIVES * EPA 8260M	CHLORINATED SOLVENTS	SEMI-VOLATILE HYDROCARBONS EPA 8270	TRPH / TOG SM 5520F / EPA 418.1M	PESTICIDES / PCB'S EPA 8081 / 8141 / 8082	CAM 17 METALS / 5 LUFT METALS	TOTAL LEAD		COMMENTS	LAB SAMPLE #
																				6020914	
1	~~MW-1~~ MW-1*	2/7/06	15:10	LIQ	3	YES						X								*TBA USE	01
2	MW-2	2/7/06	15:56	LIQ																DL less than 12.	02
3	MW-3	2/7/06	12:05	LIQ																	03
4	MW-04	2/7/06	14:35	LIQ																	04
5	~~MW-05~~ MW-6*	2/7/06	16:10	LIQ																	05
6	~~MW-06~~			LIQ																	—
7	~~MW-07~~			LIQ																	—
8	MW-08	2/7/06	12:47	LIQ																	06
9	MW-09	2/7/06	13:10	LIQ																*Per S. Knuffel,	07
10	MW-10	2/7/06	1350	LIQ																Sample ID's changed	08
11	DW-246	2/7/06	16:50	LIQ																JF 2/23/06	09

SIGNATURES

RELINQUISHED BY:		DATE:: 2/8/06	TIME:	RECEIVED BY LABORATORY:	
RECEIVED BY:		DATE::	TIME:		
RELINQUISHED BY:	Tanya Tallegas	DATE:: 2/9/06	TIME: 1:08		
RECEIVED BY:		DATE:	TIME:	SIGNATURE	DATE 2/9/06 TIME 1:08

Analytical Sciences

March 10, 2006

Kevin Coker
SCS Engineers
3645 Westwind Blvd
Santa Rosa, CA 95403

Dear Kevin,

Enclosed you will find Analytical Sciences' final report 6022407 for your Ghilotti Construction project. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

Mark A. Valentini, Ph.D.

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

Analytical Sciences

Report Date: March 10, 2006

Laboratory Report

Kevin Coker
SCS Engineers
3645 Westwind Blvd
Santa Rosa, CA 95403

Project Name: **Ghilotti Construction** **01203312**

Lab Project: **6022407**

This 8 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6022407-01	**B-9**	Gasoline	ND	50

Date Sampled:	02/23/06	Date Analyzed:	03/02/06	QC Batch: B000682
Date Received:	02/24/06	Method:	EPA 8015M	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6022407-02	**B-10**	Gasoline	ND	50

Date Sampled:	02/23/06	Date Analyzed:	03/02/06	QC Batch: B000682
Date Received:	02/24/06	Method:	EPA 8015M	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6022407-03	**B-11**	Gasoline	ND	50

Date Sampled:	02/23/06	Date Analyzed:	03/02/06	QC Batch: B000682
Date Received:	02/24/06	Method:	EPA 8015M	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6022407-01	**B-9**	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	20.5	102	70-130
Toluene-d8	20.1	100	70-130
4-Bromofluorobenzene	14.7	74	70-130

Date Sampled:	02/23/06	Date Analyzed:	02/28/06	QC Batch: B000675
Date Received:	02/24/06	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6022407-02	**B-10**	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	20.4	102	70-130
Toluene-d8	20.0	100	70-130
4-Bromofluorobenzene	14.6	73	70-130

Date Sampled:	02/23/06	Date Analyzed:	02/28/06	QC Batch: B000675
Date Received:	02/24/06	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6022407-03	**B-11**	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	20.5	102	70-130
Toluene-d8	20.2	101	70-130
4-Bromofluorobenzene	14.7	74	70-130

Date Sampled:	02/23/06	Date Analyzed:	02/28/06	QC Batch: B000675
Date Received:	02/24/06	Method:	EPA 8260B	

Quality Assurance Report

TPH Gasoline in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000682 - EPA 5030 GC										
Blank (B000682-BLK1)				Prepared: 02/28/06 Analyzed: 03/02/06						
Gasoline	ND	50	ug/L							
Matrix Spike (B000682-MS1)		**Source: 6022404-02**		Prepared: 02/28/06 Analyzed: 03/02/06						
Benzene	10.4	0.50	ug/L	10.0	0.93	95	70-130			
Toluene	10.8	0.50	ug/L	10.0	0.68	101	70-130			
Ethylbenzene	10.5	0.50	ug/L	10.0	ND	105	70-130			
Xylenes	31.2	1.5	ug/L	30.0	ND	104	70-130			
Matrix Spike Dup (B000682-MSD1)		**Source: 6022404-02**		Prepared: 02/28/06 Analyzed: 03/02/06						
Benzene	10.3	0.50	ug/L	10.0	0.93	94	70-130	1	20	
Toluene	10.6	0.50	ug/L	10.0	0.68	99	70-130	2	20	
Ethylbenzene	10.4	0.50	ug/L	10.0	ND	104	70-130	1	20	
Xylenes	30.9	1.5	ug/L	30.0	ND	103	70-130	1	20	

Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000675 - EPA 5030 GC/MS										
Blank (B000675-BLK1)				Prepared: 02/27/06 Analyzed: 02/28/06						
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
m,p-Xylene	ND	1.0	ug/L							
o-Xylene	ND	1.0	ug/L							
1,2-Dichloroethane (EDC)	ND	1.0	ug/L							
1,2-Dibromoethane (EDB)	ND	1.0	ug/L							
Tertiary Butyl Alcohol (TBA)	ND	12	ug/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	ug/L							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/L							
Surrogate: Dibromofluoromethane	*20.3*		*ug/L*	*20.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*19.7*		*ug/L*	*20.0*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*15.6*		*ug/L*	*20.0*		*78*	*70-130*			
Matrix Spike (B000675-MS1)		**Source: 6022705-01**		Prepared: 02/27/06 Analyzed: 02/28/06						
1,1-Dichloroethene (1,1-DCE)	19.9	1.0	ug/L	25.0	ND	80	70-130			
Benzene	23.2	1.0	ug/L	25.0	ND	93	70-130			
Trichloroethene (TCE)	23.4	1.0	ug/L	25.0	ND	94	70-130			
Toluene	24.2	1.0	ug/L	25.0	ND	97	70-130			
Chlorobenzene	23.5	1.0	ug/L	25.0	ND	94	70-130			
Surrogate: Dibromofluoromethane	*20.0*		*ug/L*	*20.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*20.0*		*ug/L*	*20.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*14.8*		*ug/L*	*20.0*		*74*	*70-130*			
Matrix Spike Dup (B000675-MSD1)		**Source: 6022705-01**		Prepared: 02/27/06 Analyzed: 02/28/06						
1,1-Dichloroethene (1,1-DCE)	19.6	1.0	ug/L	25.0	ND	78	70-130	3	20	
Benzene	23.2	1.0	ug/L	25.0	ND	93	70-130	0	20	
Trichloroethene (TCE)	23.6	1.0	ug/L	25.0	ND	94	70-130	0	20	
Toluene	24.0	1.0	ug/L	25.0	ND	96	70-130	1	20	
Chlorobenzene	23.2	1.0	ug/L	25.0	ND	93	70-130	1	20	
Surrogate: Dibromofluoromethane	*20.4*		*ug/L*	*20.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*20.1*		*ug/L*	*20.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*14.7*		*ug/L*	*20.0*		*74*	*70-130*			

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 6022407
SCS ENGINEERS PROJECT NAME: Ghilotti Construction
SCS ENGINEERS PROJECT NUMBER: 01203312.00

CLIENT INFORMATION		BILLING INFORMATION	
COMPANY NAME:	SCS ENGINEERS	CONTACT:	Stacey MAGILL
ADDRESS:	3645 WESTWIND BOULEVARD	COMPANY NAME:	Ghilotti Construction
	SANTA ROSA, CA 95403	ADDRESS:	246 Ghilotti Ave
CONTACT:	Kevin Coker		Santa Rosa, CA 95407
PHONE#:	(707) 546-9461	PHONE#:	707-585-1221
FAX #:	(707) 544-5769	FAX #:	

TURNAROUND TIME (check one)

MOBILE LAB			
SAME DAY		24 HOURS	
48 HOURS		72 HOURS	
5 DAYS		NORMAL	✓

GEOTRACKER EDF: X Y ___ N
GLOBAL ID: T0609700354

COOLER TEMPERATURE
_____ °C
COC

PAGE __1__ OF __1__

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GAS/~~BTEX~~ EPA 8015M/8020	TPH DIESEL / MOTOR OIL EPA 8015M	VOLATILE HYDROCARBONS EPA 8260 (FULL LIST)	EPA 8260 Full List + Oxy / Fuel Additives	BTEX & OXYGENATES + PB SCAVENGERS EPA 8260B	OXYGENATED FUEL ADDITIVES EPA 8260M	CHLORINATED SOLVENTS	SEMI-VOLATILE HYDROCARBONS EPA 8270	TRPH / TOG SM 5520F / EPA 418.1M	PESTICIDES / PCB'S EPA 8081 / 8141 / 8082	CAM 17 METALS / 5 LUFT METALS	TOTAL LEAD		COMMENTS	LAB SAMPLE #
1	B-9	2/2/06	0950	LIQ	4	YES	X				X									6022407-01	
2	B-10	"	1120	LIQ	4	"	X				X									↓	-02
3	B-11	"	1220	LIQ	4	"	X				X										-03
4	~~MW-11~~			LIQ																	
5				LIQ																	
6				LIQ																	
7				LIQ																	
8				LIQ																	
9				LIQ																	
10				LIQ																	
11				LIQ																	

SIGNATURES

RELINQUISHED BY:	[signature]	DATE:: 2/2/06	TIME: 1330
RECEIVED BY:	Pam Miles	DATE:: 2.23.06	TIME: 1330
RELINQUISHED BY:		DATE::	TIME:
RECEIVED BY:		DATE:	TIME:

RECEIVED BY LABORATORY: [signature] (SIGNATURE) 2/24/06 (DATE) 3:45 (TIME)

Analytical Sciences

March 15, 2006

Kevin Coker
SCS Engineers
3645 Westwind Blvd
Santa Rosa, CA 95403

Dear Kevin,

Enclosed you will find Analytical Sciences' final report 6030213 for your Ghilotti Construction project. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

Mark A. Valentini, Ph.D.

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

Analytical Sciences

Report Date: March 15, 2006

Laboratory Report

Kevin Coker
SCS Engineers
3645 Westwind Blvd
Santa Rosa, CA 95403

Project Name: **Ghilotti Construction** **01203312.00**

Lab Project: **6030213**

This 7 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6030213-01	**MW-1**	Gasoline	ND	50

Date Sampled:	03/01/06	Date Analyzed:	03/05/06	QC Batch:	B000706
Date Received:	03/02/06	Method:	EPA 8015M		

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6030213-02	**MW-5**	Gasoline	ND	50

Date Sampled:	03/01/06	Date Analyzed:	03/05/06	QC Batch:	B000706
Date Received:	03/02/06	Method:	EPA 8015M		

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6030213-03	**MW-11**	Gasoline	ND	50

Date Sampled:	03/01/06	Date Analyzed:	03/05/06	QC Batch:	B000706
Date Received:	03/02/06	Method:	EPA 8015M		

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6030213-01	**MW-1**	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	30	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	22.3	112	70-130
Toluene-d8	19.0	95	70-130
4-Bromofluorobenzene	21.4	107	70-130

Date Sampled:	03/01/06	Date Analyzed:	03/02/06	QC Batch:	B000685
Date Received:	03/02/06	Method:	EPA 8260B		

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6030213-02	**MW-5**	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	21.8	109	70-130
Toluene-d8	18.6	93	70-130
4-Bromofluorobenzene	20.7	104	70-130

Date Sampled:	03/01/06	Date Analyzed:	03/02/06	QC Batch:	B000685
Date Received:	03/02/06	Method:	EPA 8260B		

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
6030213-03	**MW-11**	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	4.4	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	22.7	114	70-130
Toluene-d8	18.5	92	70-130
4-Bromofluorobenzene	21.1	106	70-130

Date Sampled:	03/01/06	Date Analyzed:	03/02/06	QC Batch: B000685
Date Received:	03/02/06	Method:	EPA 8260B	

Quality Assurance Report

TPH Gasoline in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000706 - EPA 5030 GC										
Blank (B000706-BLK1)				Prepared & Analyzed: 03/04/06						
Gasoline	ND	50	ug/L							
Matrix Spike (B000706-MS1)		**Source: 6022810-01**		Prepared & Analyzed: 03/04/06						
Benzene	9.53	0.50	ug/L	10.0	ND	95	70-130			
Toluene	10.3	0.50	ug/L	10.0	ND	103	70-130			
Ethylbenzene	10.3	0.50	ug/L	10.0	ND	103	70-130			
Xylenes	30.2	1.5	ug/L	30.0	ND	101	70-130			
Matrix Spike Dup (B000706-MSD1)		**Source: 6022810-01**		Prepared & Analyzed: 03/04/06						
Benzene	9.48	0.50	ug/L	10.0	ND	95	70-130	0	20	
Toluene	10.1	0.50	ug/L	10.0	ND	101	70-130	2	20	
Ethylbenzene	10.0	0.50	ug/L	10.0	ND	100	70-130	3	20	
Xylenes	30.4	1.5	ug/L	30.0	ND	101	70-130	0	20	

Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000685 - EPA 5030 GC/MS										
Blank (B000685-BLK1)				Prepared & Analyzed: 02/28/06						
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
m,p-Xylene	ND	1.0	ug/L							
o-Xylene	ND	1.0	ug/L							
Tertiary Butyl Alcohol (TBA)	ND	12	ug/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	ug/L							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/L							
Surrogate: Dibromofluoromethane	*20.3*		*ug/L*	*20.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*19.7*		*ug/L*	*20.0*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*15.6*		*ug/L*	*20.0*		*78*	*70-130*			
Matrix Spike (B000685-MS1)		**Source: 6022803-01**		Prepared & Analyzed: 02/28/06						
1,1-Dichloroethene (1,1-DCE)	19.4	1.0	ug/L	25.0	ND	78	70-130			
Benzene	22.3	1.0	ug/L	25.0	ND	89	70-130			
Trichloroethene (TCE)	22.9	1.0	ug/L	25.0	ND	92	70-130			
Toluene	23.5	1.0	ug/L	25.0	ND	94	70-130			
Chlorobenzene	22.7	1.0	ug/L	25.0	ND	91	70-130			
Surrogate: Dibromofluoromethane	*20.3*		*ug/L*	*20.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*20.1*		*ug/L*	*20.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*15.0*		*ug/L*	*20.0*		*75*	*70-130*			
Matrix Spike Dup (B000685-MSD1)		**Source: 6022803-01**		Prepared & Analyzed: 02/28/06						
1,1-Dichloroethene (1,1-DCE)	19.1	1.0	ug/L	25.0	ND	76	70-130	3	20	
Benzene	22.3	1.0	ug/L	25.0	ND	89	70-130	0	20	
Trichloroethene (TCE)	22.8	1.0	ug/L	25.0	ND	91	70-130	1	20	
Toluene	23.6	1.0	ug/L	25.0	ND	94	70-130	0	20	
Chlorobenzene	22.9	1.0	ug/L	25.0	ND	92	70-130	1	20	
Surrogate: Dibromofluoromethane	*20.5*		*ug/L*	*20.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*20.0*		*ug/L*	*20.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*14.6*		*ug/L*	*20.0*		*73*	*70-130*			

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 6030213
SCS ENGINEERS PROJECT NAME: Ghilotti Construction
SCS ENGINEERS PROJECT NUMBER: 01203312.00

CLIENT INFORMATION		BILLING INFORMATION	
COMPANY NAME:	SCS ENGINEERS	CONTACT:	Stacey
ADDRESS:	3645 WESTWIND BOULEVARD	COMPANY NAME:	Ghilotti Construction
	SANTA ROSA, CA 95403	ADDRESS:	246 Ghilotti Ave
CONTACT:	Kevin Coker		Santa Rosa, CA 95407
PHONE#:	(707) 546-9461	PHONE#:	707-585-1221
FAX #:	(707) 544-5769	FAX #:	

TURNAROUND TIME (check one)

MOBILE LAB			
SAME DAY		24 HOURS	
48 HOURS		72 HOURS	
5 DAYS		NORMAL	✓

GEOTRACKER EDF: X Y ___ N
GLOBAL ID: T0609700354

COOLER TEMPERATURE
_____ °C
COC

PAGE __1__ OF __1__

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GAS/~~BTEX~~ EPA 8015M/~~8020~~	TPH DIESEL / MOTOR OIL EPA 8015M	VOLATILE HYDROCARBONS EPA 8260 (FULL LIST)	EPA 8260 Full List + Oxy / Fuel Additives	BTEX & OXYGENATES ~~+ PD SCAVENGERS~~ EPA 8260B	OXYGENATED FUEL ADDITIVES EPA 8260M	CHLORINATED SOLVENTS	SEMI-VOLATILE HYDROCARBONS EPA 8270	TRPH / TOG SM 5520F / EPA 418.1M	PESTICIDES / PCB'S EPA 8081 / 8141 / 8082	CAM 17 METALS / 5 LUFT METALS	TOTAL LEAD		COMMENTS	LAB SAMPLE #
1	MW-1	3/1/06	1410	LIQ	3	YES	X				X									6030213	-01
2	MW-5	"	1500	LIQ	3	Y	X				X									"	02
3	MW-11	"	1555	LIQ	3	Y	X				X									"	03
4				LIQ																	
5				LIQ																	
6				LIQ																	
7				LIQ																	
8				LIQ																	
9				LIQ																	
10				LIQ																	
11				LIQ																	

SIGNATURES

RELINQUISHED BY:	Rick Enclona	DATE:: 3/1/06	TIME: 1730
RECEIVED BY:	Pam Miles	DATE:: 3.1.06	TIME: 1730
RELINQUISHED BY:	Pam Miles	DATE:: 3.2.06	TIME: 1350
RECEIVED BY:		DATE:	TIME:

RECEIVED BY LABORATORY: _____ (SIGNATURE) 3/2/06 (DATE) 1350 (TIME)

Appendix F

Certificate of Disposal dated January 10, 2006 - Water

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name:	Ghilotti Construction	Facility Name:	Ghilotti Construction
Address:	246 Ghilotti Avenue	Address:	246 Ghilotti Avenue
	Santa Rosa, CA 95403		Santa Rosa, CA
Contact:	Damien Calegari	Facility Contact:	Sue Burneson, SCS Engineers
Phone:	707-585-1221	Phone:	707-546-9461

IWM Job #:	95647-DW
Description of Waste:	1 Drum of
	Non-Hazardous
	Water
Removal Date:	01/10/06
Ticket #:	SP100106-MISC

Transporter Information

Name:	IWM, Inc.
Address:	950 Ames Avenue
	Milpitas, CA 95035
Phone:	(408) 942-8955

Disposal Facility Information

Name:	Seaport Refining & Environmental
Address:	675 Seaport Blvd
	Redwood City, CA 94063
Phone:	(650) 364-1024

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon William T. DeLon
Authorized Representative (Print Name and Signature)

01/10/06
Date

CertOfDisposal.blankfield.seaportuse

Revised: 281005

Appendix G

Historical References

Historical References

Ghilotti, 1995. Personal communication between D. Ghilotti and L. Mackey-Taverner, June 26.

PNEG, 1996. Monitoring Report, Sensitive Site Receptor Survey, and Request for Site Closure, 246 Ghilotti Avenue, Santa Rosa, California, October 15.

PNEG, 1997a. Monitoring Report and Request for Site Closure, 246 Ghilotti Avenue, Santa Rosa, February 5.

PNEG, 1997b. September 1997 Semiannual Groundwater Monitoring Report and Request for Site Closure, 246 Ghilotti Avenue, Santa Rosa, October 17.

PNEG, 1998a. Semiannual Groundwater Monitoring Report for June 1998 Sampling, 246 Ghilotti Avenue, Santa Rosa, August 1998.

PNEG, 1999a. Status Report for 246 Ghilotti Avenue, Santa Rosa, December 14.

PNEG, 1999b. Results of the December 1999 Quarterly Monitoring Event and Domestic Well Sampling at 246 Ghilotti Avenue, Santa Rosa, February 28.

PNEG, 2000a. Results of the March 2000 Quarterly Monitoring Event and Domestic Well Sampling at 246 Ghilotti Avenue, Santa Rosa, May 31.

PNEG, 2000b. Results of the 2nd Quarter 2000 Monitoring Event and Domestic Well Sampling at 246 Ghilotti Avenue, Santa Rosa, August 7.

PNEG, 2000c. Results of the 3rd Quarter 2000 Monitoring Event and Domestic Well Sampling at 246 Ghilotti Avenue, Santa Rosa, December 11.

PNEG, 2001a. Results of the 4th Quarter 2000 Monitoring Event and Domestic Well Sampling at 246 Ghilotti Avenue, Santa Rosa, February 23.

PNEG, 2001b. Results of the 2nd Quarter 2001 Groundwater Monitoring and Sampling and Domestic Well Sampling Event at 246 Ghilotti Avenue, Santa Rosa, June 6.

PNEG, 2001c. Results of the 3rd Quarter 2001 Groundwater Monitoring and Sampling and Domestic Well Sampling Event at 246 Ghilotti Avenue, Santa Rosa, September 7.

PNEG, 2001d. Results of the 4th Quarter 2001 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, November 30.

PNEG, 2002a. Results of the 1st Quarter 2002 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, March 20.

PNEG, 2002b. Work Plan to Define the Lateral and Vertical Extent of MTBE Contamination- 246 Ghilotti Avenue, Santa Rosa, California, May 28.

PNEG, 2002c. Results of the 2nd Quarter 2002 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, June 6.

PNEG, 2002d. Results of the 3rd Quarter 2002 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, August 14.

PNEG, 2002e. Results of the 4th Quarter 2002 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, November 13.

PNEG, 2003a. Results of the 1st Quarter 2003 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, California, March 17.

PNEG, 2003b. Results of the 2nd Quarter 2003 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, California, May 8.

SCDHS, 2002. Work Plan approval from C. Ives, dated June 24.

SCDHS, 2005a. Work Plan Directive from C. Ives to R. Ghilotti, dated July 11.

SCDHS, 2005b. Regulatory letter re: detection limit of 12 µg/L for TBA, September 12.

SCDHS, 2005c. Work Plan Approval from C. Ives to R. Ghilotti, November 14.
SCS, 2003a. Results of the 3rd Quarter 2003 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, California, August 13.
SCS, 2003b. Results of the 4th Quarter 2003 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, California, November 20.
SCS, 2004a. Results of the 1st Quarter 2004 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, California, January 29.
SCS, 2004b. Results of the 2nd Quarter 2004 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, California, May 7.
SCS, 2004c. Results of the 3rd Quarter 2004 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, California, August 9.
SCS, 2004d. Results of the 4th Quarter 2004 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, California, December 29.
SCS, 2005a. Site Health and Safety Plan, January 2005.
SCS, 2005b. Results of Additional Subsurface Investigation, at 246 Ghilotti Avenue, Santa Rosa, California, May 6.
SCS, 2005c. Results of the 2nd Quarter 2005 Groundwater Monitoring and Sampling Program – 246 Ghilotti Avenue, Santa Rosa, California, August 18.
SCS, 2005c. Work Plan for Additional Subsurface Investigation, at 246 Ghilotti Avenue, Santa Rosa, California, September 9.
SCS, 2005d. Results of the 3rd Quarter 2005 Groundwater Monitoring and Sampling Event at 246 Ghilotti Avenue, Santa Rosa, California, October 24.
SCS, 2005e. Work Plan Addendum, dated December 5.